Date: May 2000 To: D. A. Isom MSIN: H6-08	Copy No.: 145a Document No.: DOE/RL-88-21 0053190 Title: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION Revision Release No.: Revision 26

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4.3.2.3 305-B Storage Facility	1-25	1	12/20/90	1-17	1	Class 1

Please update your manual with the attached pages, sign, date, and return this sheet. If you no longer require the document, please return the document, with this sheet, to the address below.

Name: Debbi Isom Date: 6/19/00

Environmental Services
G1-26

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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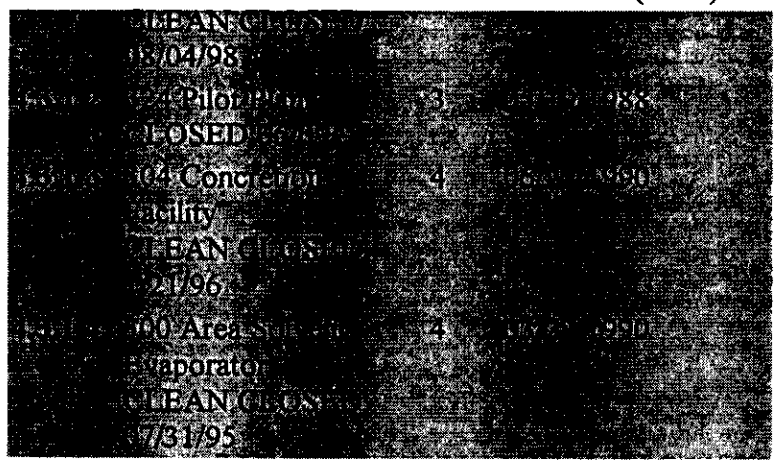
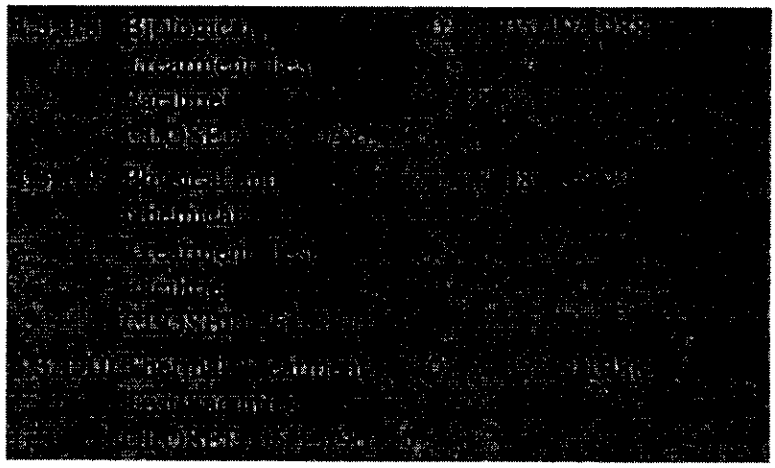
4.2.1 Treatment Facilities

[redacted]

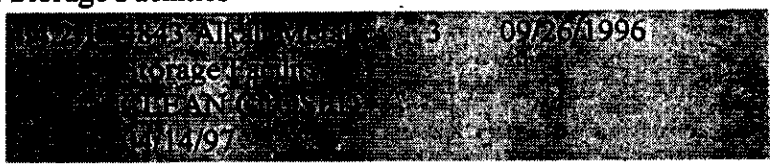
4.2.2 Storage Facilities

[redacted]





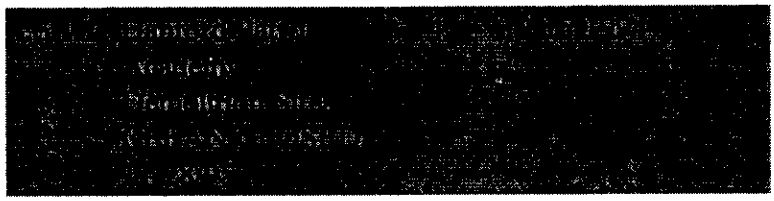
4.4.2 Storage Facilities



4.4.2.2	Sodium Storage Facility and Sodium Reaction Facility	1	09/26/1996	

4.5 600 AREA FACILITIES

4.5.1 Treatment Facilities



4.5.2 Storage Facilities

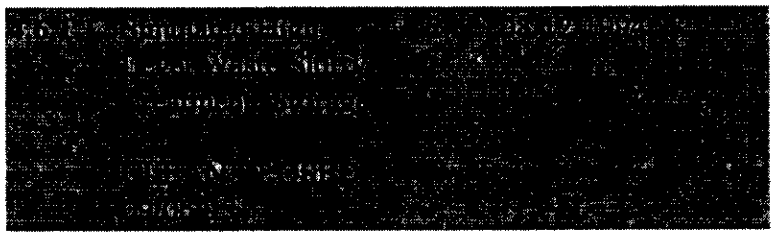
4.5.2.1	616 Nonradioactive Dangerous Waste Storage Facility	7	03/04/1997	
4.5.2.2	600 Area Purgewater Storage and Treatment Facility	3	09/11/1998	

4.5.3 Disposal Facilities

4.5.3.1	Nonradioactive Dangerous Waste Landfill	4	06/30/1994	*

4.6 1100 AREA FACILITIES

4.6.1 Treatment Facilities



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* = A New Revision Is Pending And Is Not Available Yet.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 12/21/1999 2:51 PM
Return to the Hanford home page.

Designed by LMSI WEB TEAM
Maintained by FH

2.0 PERMITTING STATUS FOR DANGEROUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL UNITS

Shaded lines inidicate closed TSD units.

Unit	Co-op [1]	Area [2]	Unit Type T=treatment S=storage D=disposal	Waste Type M=mixed D=dangerous	Unit classification [3]	Document type [4]
100 Area						
1324-N Surface Impoundment	BHI	100	T	D	7	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1706-KE Waste Treatment System	FH	100	TS	M	3, 13	
183-H Solar Evaporation Basins	BHI	100	TS	M	3, 4	
1301-N Liquid Waste Disposal Facility	BHI	100	D	M	11	
1325-N Liquid Waste Disposal Facility	BHI	100	D	D	11	
1324-NA Percolation Pond	BHI	100	TD	D	8, 13	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200 Areas						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
-A Evaporator	FH	200E	TS	M	3, 4	
Grout Treatment Facility	CHG	200E	TSD	M	3, 4, 7, 11	
T Plant Complex	FH	200W	TS	M	1, 2, 3, 4, 10, 13	
241-Z Treatment and Storage Tanks	FH	200W	TS	M	3, 4	
B Plant Complex	FH	200E	TS	M	1, 3, 4, 10	
222-S Laboratory Complex	FH	200W	TS	M	1, 2, 3, 4	
204-AR Waste Unloading Station	CHG	200E	T	M	4	
PUREX Plant	FH	200E	TS	M	3, 4, 10	
Hanford Waste Vitrification Plant	DOE	200E	TS	M	1, 3, 4, 12, 13	
200 Area Effluent Treatment Facility	FH	200E	TS	M	1, 3, 4	
Waste Receiving and Processing Facility	FH	200W	TS	M	1, 2	
Plutonium Finishing Plant Treatment Unit	FH	200W	T	M	2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Double-Shell Tank System	CHG	200EW	TS	M	3, 4	
Hexone Storage and Treatment Facility	BHI	200W	TS	M	1, 3, 4	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PUREX Storage Tunnels	FH	200E	S	M	12	
224-T Transuranic Waste Storage and Assay Facility	FH	200W	S	M	1	
[illegible]tral Waste Complex	FH	200W	TS	M	1, 2	
Single-Shell Tank System	CHG	200EW	TS	M	3, 4, 5	
207-A South Retention Basin	FH	200E	S	M	6	
Liquid Effluent Retention Facility	FH	200E	TS	M	6, 7	

241-CX Tank System	BHI	200E	S	M	3	
Waste Encapsulation and Storage Facility	FH	200E	S	M	12	
IHLW Interim Storage Unit	FH	200E	S	M	1	
w-Level Burial Grounds	FH	200EW	SD	M	1, 11	
216-S-10 Pond and Ditch	BHI	200W	D	M	8	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
216-A-29 Ditch	BHI	200E	TD	M	8, 13	
216-B-3 Main Pond	BHI	200E	TD	M	7, 8	
216-B-63 Trench	FH	200E	TD	M	7, 8	
216-A-10 Crib	BHI	200E	D	M	11	
216-U-12 Crib	BHI	200W	D	M	11	
216-A-36B Crib	BHI	200W	D	M	11	
216-A-37-1 Crib	BHI	200E	D	M	11	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
300 Area						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
300 Area Waste Acid Treatment System	FH	300	TS	M	3, 4, 13	
303-M Oxide Facility	FH	300	T	M	9	
; Hazardous Waste Treatment Units	PNNL	300	TS	M	1, 2, 3, 4	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
311 Tanks	FH	300	TS	M	3, 4, 13	2
303-K Storage Facility	FH	300	S	M	1	
305-B Storage Facility	PNNL	300	S	M	1	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
300 Area Process Trenches	BHI	300	D	M	8	
400 Area						
437 Maintenance and Storage Facility	FH	400	T	M	4	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Sodium Storage Facility and Sodium Reaction Facility	FH	400	TS	M	3, 4	
600 Area						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
616 Nonradioactive Dangerous Waste Storage Facility	FH	600	S	D	1	
) Area Purgewater Storage and Treatment Facility	BHI	600	TS	M	12, 13	
Nonradioactive Dangerous Waste Landfill	BHI	600	TSD	D	11	
3000 Area						

Simulated High-Level Waste Slurry Treatment/Storage	PNNL	3000	TS	M	1,2,15				

Unit	Part A			Document Type	Date	Doc #	Rev	RCRA Permit Location	Date closed
	Initial	Latest	Rev.						
100 Area									
1324-N Surface Impoundment	08/01/86	6/30/94	3	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 18	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1706-KE Waste Treatment System	08/01/86	9/26/96	3						
183-H Solar Evaporation Basins	11/01/85	6/30/94	4	Postclosure Plan	06/30/97	DOE/RL-97-48	0	Part 6, Chapter 2	
1301-N Liquid Waste Disposal Facility	08/01/86	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 17	
1325-N Liquid Waste Disposal Facility	02/01/87	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 16	
1324-NA Percolation Pond	08/01/86	6/30/94	3	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 19	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200 Areas									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
242-A Evaporator	9/1/87	9/26/96	7	Part B	07/01/97	DOE/RL-90-42	1	Part 3, Chapter 5	
Grout Treatment Facility	9/1/87	12/21/99	7	Part B	07/24/92	DOE/RL-88-27	2		
T Plant Complex	12/01/87	12/23/98	7	Part B	12/19/95	DOE/RL-95-36	0		
241-Z Treatment and Storage Tanks	12/1/87	5/5/00	6	Closure Plan	12/31/96	DOE/RL-96-82	0		
B Plant Complex	12/1/87	8/26/99	7	Preclosure Work Plan	02/27/98	DOE/RL-98-12	0		
222-S Laboratory Complex	11/25/87	12/23/98	7	Part B	12/21/91	DOE/RL-91-27	0		
204-AR Waste Unloading Station	12/1/87	12/21/99	6						
PUREX Plant	12/1/87	8/4/99	9	Preclosure Work Plan	06/30/95	DOE/RL-95-78	0		
Hanford Waste Vitrification Plant	5/1/88	9/30/99	6	Part B	10/31/91	DOE/RL-89-02	2		
200 Area Effluent Treatment Facility	06/26/91	5/22/98	3	Part B	07/01/97	DOE/RL-97-03	0	Part 3, Chapter 4	
Waste Receiving and Processing Facility	1/25/95	6/28/99	3	Part B	05/22/98	DOE/RL-91-16	1		
Plutonium Finishing Plant Treatment Unit	12/23/98	4/10/00	1						

[illegible]	11/1/85	[illegible]	2	Closure Plan	10/07/92	DOE/RL-88-37	3A	Part 5, Chapter 8	06/30/96
Double-Shell Tank System	9/1/87	12/21/99	10	Part B	08/28/91	DOE/RL-90-39	0		
[illegible]xone Storage and [illegible]atment Facility	12/1/87	6/30/94	3	Closure Plan	11/24/92	DOE/RL-92-40	0		
[illegible]	[illegible]	[illegible]							[illegible]
PUREX Storage Tunnels	12/1/87	9/26/96	5	Part B	04/14/97	DOE/RL-90-24	4	Part 3, Chapter 3	
224-T Transuranic Waste Storage and Assay Facility	12/1/87	9/26/96	6	Part B	06/30/92	DOE/RL-91-51	0		
Central Waste Complex	5/1/88	6/28/99	6	Part B	05/22/98	DOE/RL-91-17	1		
Single-Shell Tank System	2/1/88	12/21/99	6	Closure Plan	09/30/89		Draft		
207-A South Retention Basin	2/26/90	9/26/96	2						
Liquid Effluent Retention Facility	2/26/90	5/22/98	6	Part B	07/01/97	DOE/RL-97-03	0	Part 3, Chapter 4	
241-CX Tank System	07/10/90	6/30/94	3						
Waste Encapsulation and Storage Facility	12/19/97	12/19/97	0						
IHLW Interim Storage Unit	06/28/99	6/28/99	0						
Low-Level Burial Grounds	11/1/85	12/23/98	11	Part B	07/31/97	DOE/RL-88-20	1		
216-S-10 Pond and Ditch	02/01/87	6/30/94	3						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
-A-29 Ditch	08/01/86	6/30/94	3						
216-B-3 Main Pond	08/01/86	3/30/00	6						
216-B-63 Trench	08/01/86	9/26/96	3						
216-A-10 Crib	08/01/87	6/30/94	3						
216-U-12 Crib	08/01/87	6/30/94	3						
216-A-36B Crib	02/01/88	6/30/94	1						
216-A-37-1 Crib	02/26/90	6/30/94	2						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300 Area									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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300 Area Waste Acid Treatment System	09/01/87	9/26/96	5	Closure Plan	03/31/96	DOE/RL-90-11	1		
303-M Oxide Facility	05/01/88	9/26/96	1						
[illegible] Hazardous Waste Treatment Units	05/19/88	6/30/97	4	Part B	06/30/97	DOE/RL-92-35	1	Part 3, Chapter 6	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Tanks		11/16/87	1	Closure Plan	03/31/96	DOE/RL-90-11	1		
303-K Storage Facility	08/01/87	9/26/96	5	Closure Plan	12/17/93	DOE/RL-90-04	2	Part 5, Chapter 14	
305-B Storage Facility	05/19/88	12/20/90	1	Part B	04/30/92		2	Part 3, Chapter 2	
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300 Area Process Trenches	11/01/85	5/25/95	4	Closure Plan	5/25/95		4	Part 6, Chapter 1	
400 Area									
437 Maintenance and Storage Facility	11/1/85	9/26/96	3						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sodium Storage Facility and Sodium Reaction Facility	05/01/95	9/26/96	1						
600 Area									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
616 Nonradioactive Dangerous Waste Storage Facility	11/01/85	3/4/97	7	Part B	10/31/91	DOE/RL-89-03	2	Part 3, Chapter 1	
[illegible] Area Purgewater Storage and Treatment Facility	02/20/90	9/11/98	3						
Nonradioactive Dangerous Waste Landfill	11/1/85	6/30/94	4	Closure Plan	09/30/90	DOE/RL-90-17	0		
3000 Area									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[1] Co-op
- BHI -- Bechtel Hanford, Inc.
- CHG -- CH2M HILL Hanford Group, Inc.
- FH -- Fluor Hanford, Inc.
- PNNL -- Pacific Northwest National Laboratory.
- RL -- U. S. Department of Energy, Richland Operations Office
- Other -- Closed by a previous co-operator.

[2] Area
- 100 -- 100 Area
- 200E -- 200 East Area
- 200W -- 200 West Area
- 200EW -- Parts of a TSD unit are located in both the 200 East and the 200 West Areas
- 300 -- 300 Area
- 400 -- 400 Area
- 500 -- Unused designation
- 600 -- 600 Area
- 3000 -- 3000 Area

[3] Unit classification
- 1 -- Container - Storage
- 2 -- Container - Treatment
- 3 -- Tank - Storage
- 4 -- Tank - Treatment
- 5 -- Waste pile
- 6 -- Surface impoundment - Storage
- 7 -- Surface impoundment - Treatment
- 8 -- Surface impoundment - Disposal
- 9 -- Incinerator
- 10 -- Containment Building
- 11 -- Landfill
- 12 -- Miscellaneous - Storage
- 13 -- Miscellaneous - Treatment
- 14 -- Land treatment
- 15 -- Certified clean closure; regulatory acceptance letter received.
- 16 -- Certified procedural closure; regulatory acceptance letter received.
- 17 -- Certified partial clean closure, regulatory acceptance letter received.

[4] Document type
- 1 -- Part B
- 2 -- Closure plan
- 3 -- Partial closure
- 4 -- Postclosure plan
- 5 -- Closure work plan
- 6 -- Undetermined
- 7 -- TSD unit being closed, or anticipated to be closed, under Section 8.0 of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)
- 8 -- Procedural closure in accordance with Section 6.3.3 of the Tri-Party Agreement or in response to withdrawal requests submitted in fulfillment of Tri-Party Agreement Milestone M-20-45
- 9 -- To be designated as a TSD unit if the Fast Flux Test Facility sodium is determined to have no beneficial use
- 10 -- Interim status TSD unit to be closed in accordance with the Purgewater Management Plan [Attachment 5 of the HF RCRA Permit (DW Portion)]
- 11 -- TSD unit subject to the closure work plan/closure plan process in accordance with Tri-Party Agreement Milestone M-45-06

12 -- Interim status TSD unit in a standby mode

13 -- Interim status TSD unit is to be superseded by a high-level waste immobilization facility.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 12/21/1999 2:51 PM
Return to the Hanford home page.

Maintained by FH

DOE/RL-88-21
241-Z Treatment and Storage Tanks
Rev. 6, 5/5/00

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM 3

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: WA7890008967

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

*FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)
*The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

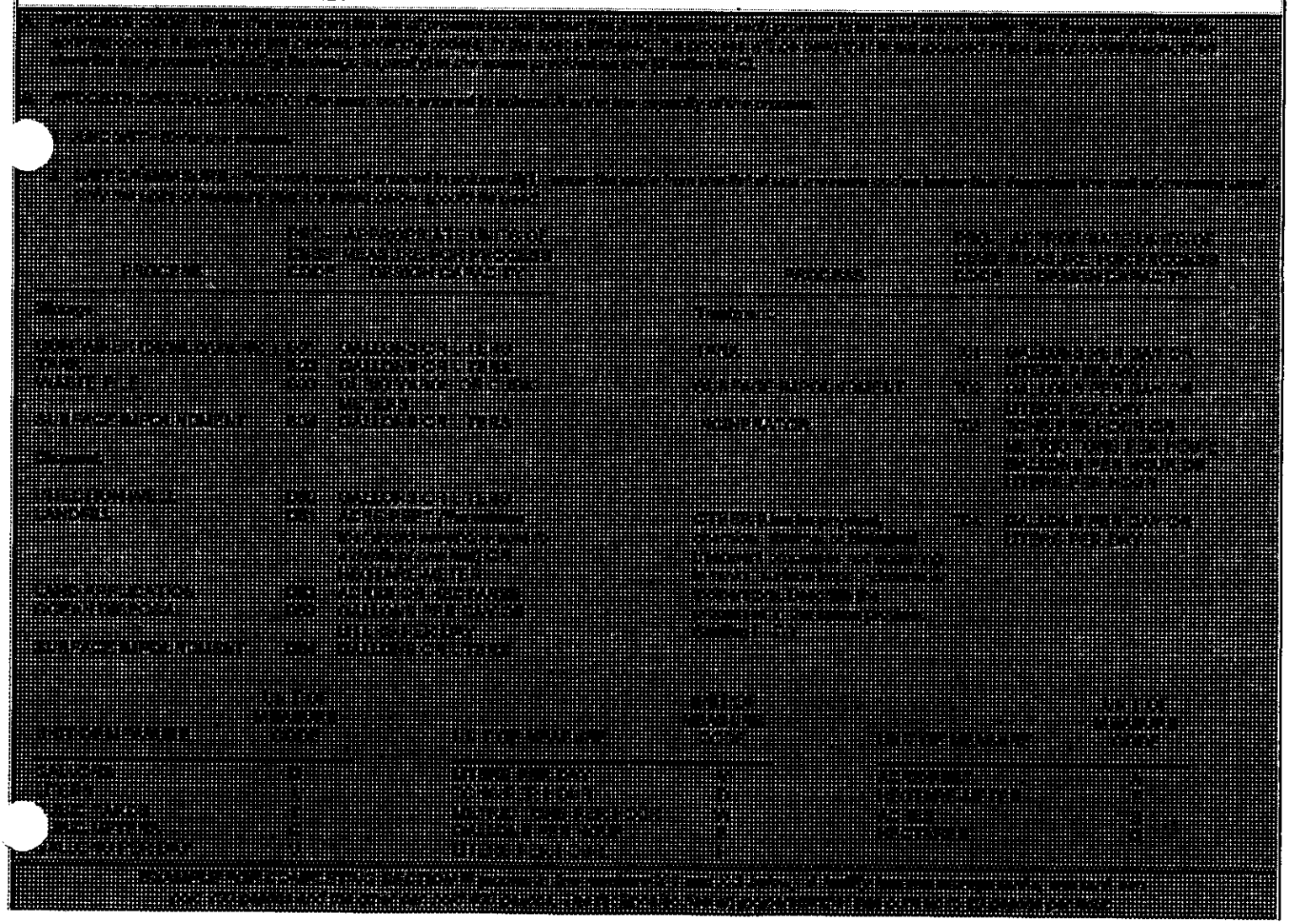
FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES



LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*	
1	S02	69,300	L	
2	T01	16,277	V	
3				
4				
5				
6				
7				
8				
9				
10				

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S02
The 241-Z Treatment and Storage Tanks (241-Z) support the Plutonium Finishing Plant (PFP), which was constructed in November 1948. The 241-Z consists of storage tanks D-4, D-5, D-7, D-8, and an overflow tank. Tanks D-5 and D-8 also serve as the waste treatment tanks. These tanks, located in the belowground portion of the 241-Z Building, have the combined storage capacity of 69,300 liters (18,307 gallons). Tanks D-4 and D-5 each have a capacity of 16,400 liters (4,332 gallons), while tanks D-7 and D-8 each have a capacity of 17,900 liters (4,729 gallons). The overflow tank, located in the D-7 Vault, has a capacity of 700 liters (185 gallons) and is in place to serve only in a capacity for receiving waste that might overflow from one of the other tanks. The overflow tank is not in place to serve as storage capacity for dangerous waste. The 241-Z accumulates and stores mixed waste generated from PFP process activities. Once treated, the waste is stored before final transfer to the Double-Shell Tank (DST) System. The original construction of 241-Z included a fifth 16,400 liter (4,332 gallon) tank that also is located in the belowground portion of the facility. Tank D-6 was taken out of service and isolated from the 241-Z tank sysyem in 1972 and never stored dangerous waste. The purpose of identifying tank D-6 is to note its existence within the 241-Z Building, but not to include it with the tank system covered by the Part A, Form 3, for the 241-Z. The maximum process design capacity for tank storage is 69,300 liters (18,307 gallons).

T01
Treatment that occurs in the tanks D-5 and D-8 consists of a batch process that includes the addition of sodium hydroxide or potassium hydroxide, sodium nitrate, ferric nitrate, and water. The sodium hydroxide is added to adjust the pH of the waste to make the waste more amenable for transfer to the DST System. Ferric nitrate solution is added to provide 1 percent stable solids for transfer to the DST System, while water is could be used to adjust the plutonium concentration of the waste to be transferred so that the waste meets the DST System criteria for acceptance. This treatment process makes the waste more amenable for transfer to the DST System. The maximum process design capacity for the tank treatment is 16,277 liters per day (4,300 gallons per day).

IV. DESCRIPTION OF DANGEROUS WASTES

[redacted]

LINE	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
[redacted]								
1	D002	1,360,777	K	T01				Treatment - Tank
2	D004		↓	↓				↓
3	D005		↓	↓				↓
4	D006		↓	↓				↓
5	D007		↓	↓				↓
6	D008		↓	↓				↓
7	D009		↓	↓				↓
8	D010		↓	↓				↓
9	D011		↓	↓				↓
10	D019		↓	↓				↓

11	WT01		↓	↓				↓
12	WT02		↓	↓				Included With Above
13	D002	2,494,758	K	S02				Storage - Tank
14	D004		↓	↓				↓
	D005		↓	↓				↓
	D006		↓	↓				↓
17	D007		↓	↓				↓
18	D008		↓	↓				↓
19	D009		↓	↓				↓
20	D010		↓	↓				↓
21	D011		↓	↓				↓
22	D019		↓	↓				↓
23	WT01		↓	↓				↓
24	WT02		↓	↓				Included With Above
25								
26								
27								
28								
29								

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The waste recieved by the 241-Z from PFP process activities could be assigned one or more of the following dangerous waste numbers as determined through process knowledge, modeling, and some process sampling. Waste could designate corrosive (D002), and/or toxic for arsenic (D004), barium (D005), cadmium (D006), chromium (D007), lead (D008), mercury (D009), SELENIUM (D010), silver (D011), or carbon tetrachloride (D019). Depending on the waste stream received, the waste also could designate as a state-only toxic dangerous waste (WT01 or WT02).

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

Existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	05/05/2000

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

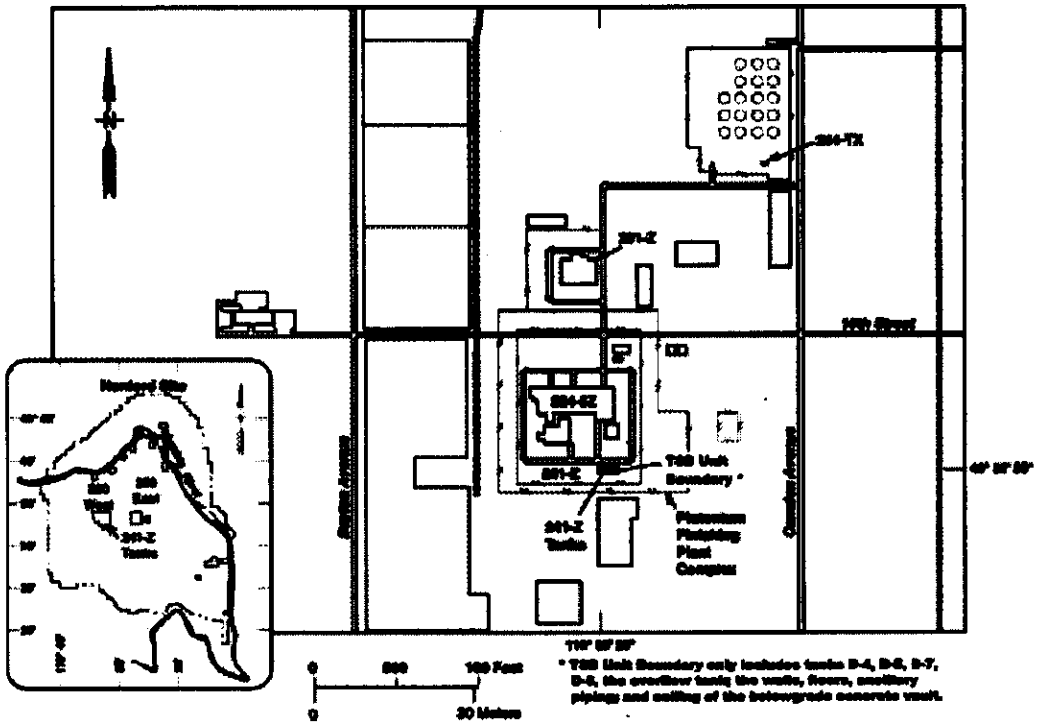
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

5/5/00
Date

D. B. Van Leuven
Co-Operator
R. D. Hanson,
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

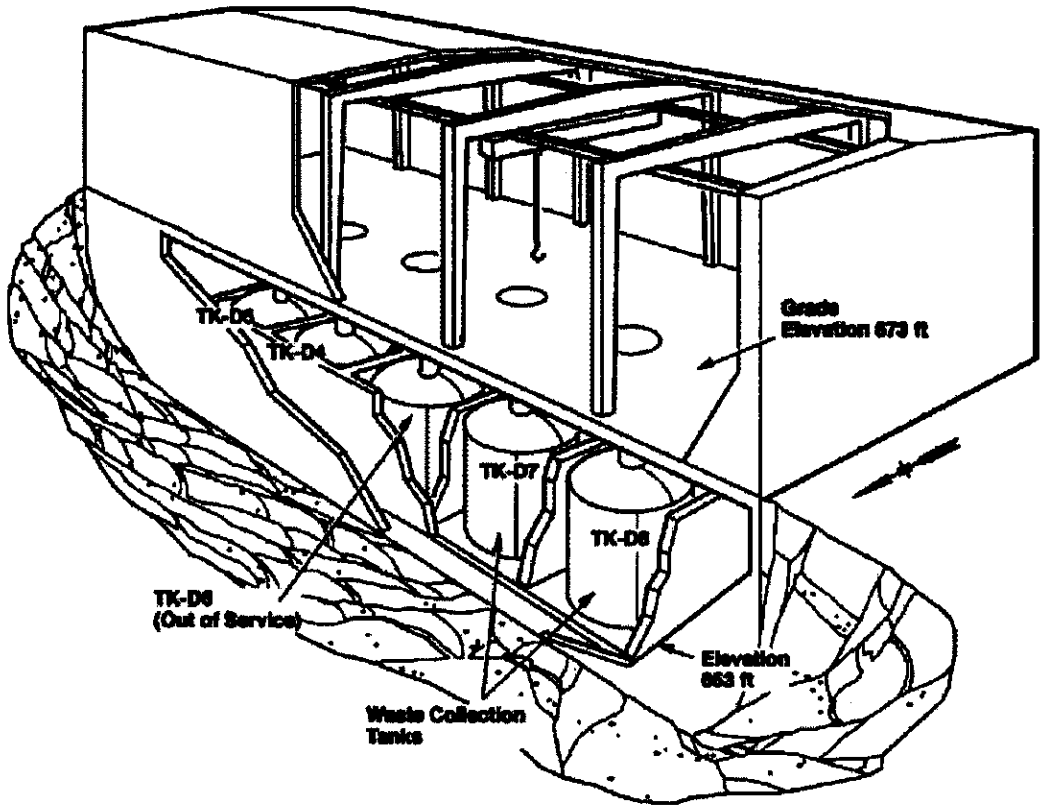
4/10/00
Date

241-Z Treatment and Storage Tanks Site plan



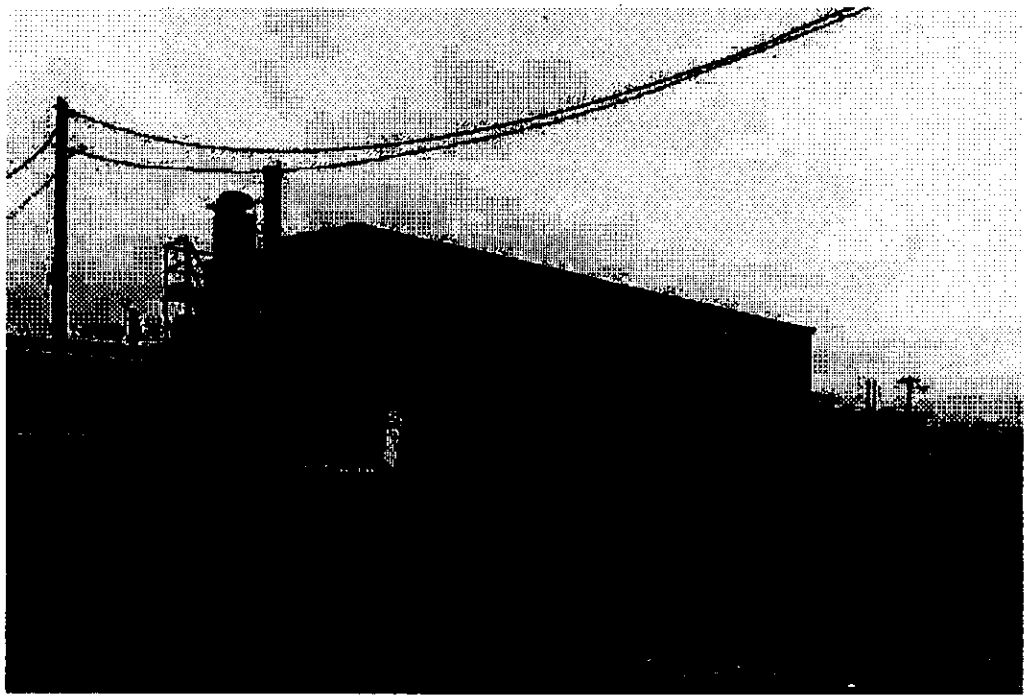
H96070161.5

241-Z Building Cutaway View



H96060058.5

241-Z Building



46°32'58"
119°38'20"

8706219-5CN
(PHOTO TAKEN 1987)

DOE/RL-88-21
PUREX Plant
Rev. 9, 8/4/99

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: WA7890008967

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

*FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
*The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES

[redacted]

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*	
1	T01	392,000	V	
2	S02	1,263,233	L	
3	S06	430	C	
4				
5				
6				
7				
8				
9				
10				

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The Plutonium-Uranium Extraction (PUREX) Plant, constructed in 1956, is located in the southeast corner of the 200 East Area. The PUREX Plant was used for the recovery of uranium and plutonium from irradiated reactor fuel. Liquid processes were used to separate the plutonium and uranium. The PUREX Plant consists of the 202-A Building and various support structures. The 202-A Building is a reinforced concrete structure 306.3 meters long, 36.3 meters wide (at its maximum), and 30.5 meters high with approximately 12.2 meters of the height below grade. The 202-A Building consists of three main structural components: (1) a thick-walled, concrete canyon containing remotely operated process equipment (in cells below grade); (2) the pipe and operating, sample, and storage galleries; and (3) an annex that included offices, process control rooms, laboratories, and building services.

T01 and S02 are used to indicate a historical use of the tanks for storage and treatment. The tanks once used in this process have been drained and flushed and are awaiting final disposition.

S02 reverences vessels that are permitted to store mixed waste. The PUREX Plant Vessel Table (page-6below) includes the tank identification numbers, tank locations, and tank capacities for the permitted tanks. The total process design capacity for tank storage was 1,263,233 liters.

S06 is used to indicate a containment building subject to the requirements of 40 CFR 265, Subpart DD as prescribed in WAC-173-400 interim status facility standards. A steel open top skid containing concrete chips from the floor of E-Cell is stored in F-Cell. The solid mixed waste in the canyon could consist of contaminated discarded canyon process equipment, jumpers (or isolated components thereof) or other material from the various onsite sources.

Treatment and storage capacities are provided to reflect past operations. Current and/or future PUREX Plant activities do not propose utilization of treatment or storage capacity beyond what has been agreed to for the facility transition purposes under Section 8 of the Hanford Federal Facility Agreement and Consent Order.

PUREX PLANT VESSEL TABLE

VESSEL ID	LOCATION	CAPACITY (LITERS)
TK-D5	D Cell	19,851
TK-E5	E Cell	19,873
TK-E6	E Cell	19,813
TK-F3	F Cell	19,964
TK-F4	F Cell	19,593
T-F5	F Cell	1,132
E-F11	F Cell	9,804
TK-F15	F Cell	19,419
TK-F16	F Cell	19,870
TK-F18	F Cell	19,798
TK-G1	G Cell	18,662
TK-G2	G Cell	7,064
T-G2	G Cell	8,248
TK-G5	G Cell	55,403
TK-G7	G Cell	50,827
TK-G8	G Cell	19,881
TK-H1	H Cell	19,593
T-H2	H Cell	7,003
E-H4	H Cell	10,137
TK-J1	J Cell	19,926
TK-J3	J Cell	19,911
T-J6	J Cell	6,057
T-J7	J Cell	6,730
TK-J21	J Cell	1,162
T-J22	J Cell	568
T-J23	J Cell	393
TK-K1	K Cell	19,828
T-K2	K Cell	5,194
T-K3	K Cell	6,507
TK-K6	K Cell	19,593
T-L2	L Cell	447
TK-L3	L Cell	488
T-L4	L Cell	139
TK-M2	M Cell	6,852
TK-Q21	Q Cell AMU	81
TK-Q22	Q Cell AMU	968
TK-R1	R Cell	18,121
TK-R2	R Cell	6,746
T-R2	R Cell	8,282
TK-R7	R Cell	35,174
TK-U3	U Cell	31,124
TK-U4	U Cell	31,184
TK-P4	203-A	402,930
TK-40	211-A	247,360
TK-156	AMU	1,533
Total Capacity		1,263,233

Cell locations are noted on the building illustrations of ~~pages 8-10~~Figures 2-4 following.

IV. DESCRIPTION OF DANGEROUS WASTES *

[redacted]

LINE	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
[redacted]								
1	WT01	0	K	T01	S02			Process is not used.*
* The waste codes have been listed to indicate a historical use of tanks for treatment and storage.								
2	WT02		↓	↓	↓			↓
3	WP01		↓	↓	↓			↓
4	WP02		↓	↓	↓			↓
5	D001		↓	↓	↓			↓
6	D002		↓	↓	↓			↓
7	D003		↓	↓	↓			↓
8	D004		↓	↓	↓			↓
9	D005		↓	↓	↓			↓

10	D006		↓	↓	↓			↓
11	D007		↓	↓	↓			↓
12	D008		↓	↓	↓			↓
13	D009		↓	↓	↓			↓
	D010		↓	↓	↓			↓
	D011		↓	↓	↓			Included With Above
16	WT01	15,200	K	S06				Storage in a containment building
17	WT02		↓	↓				↓
18	D005		↓	↓				↓
19	D006		↓	↓				↓
20	D007		↓	↓				↓
21	D008		↓	↓				↓
22	D010		↓	↓				↓
23	D011		↓	↓				Included With Above
24								
25								
26								
27								
28								
29								
30								

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

ACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	08/04/1999

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

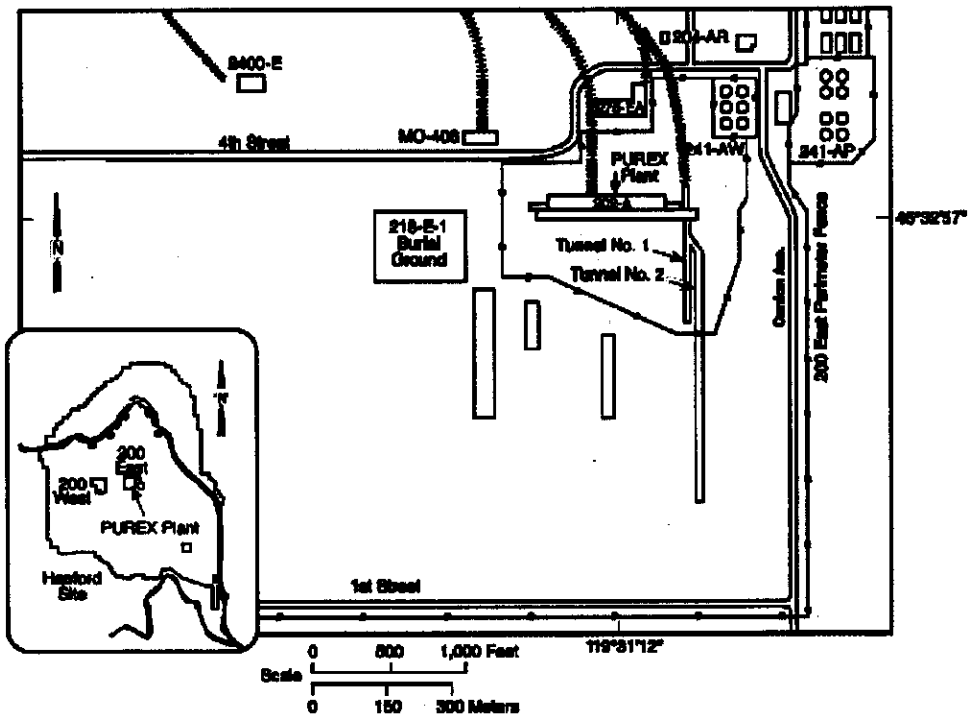
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

8/4/99
Date

S. D. Liedle
Co-Operator
S. D. Liedle, President
Bechtel Hanford, Inc.

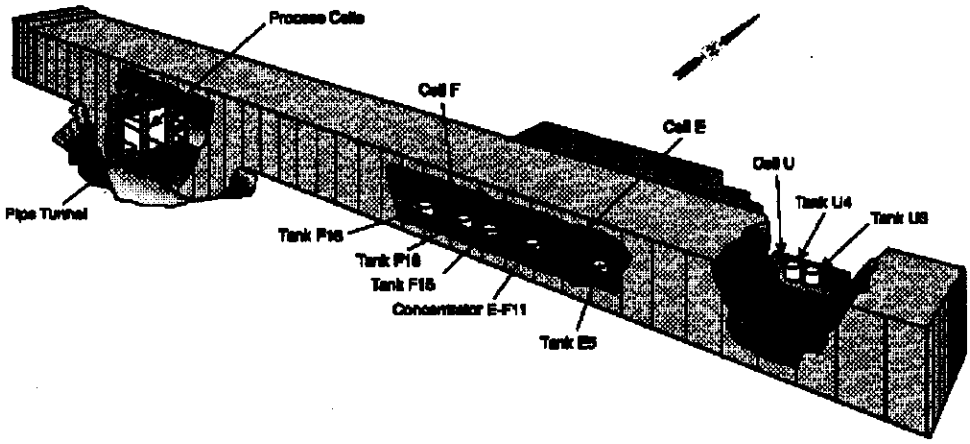
7/21/99
Date

PUREX Plant
Site Plan



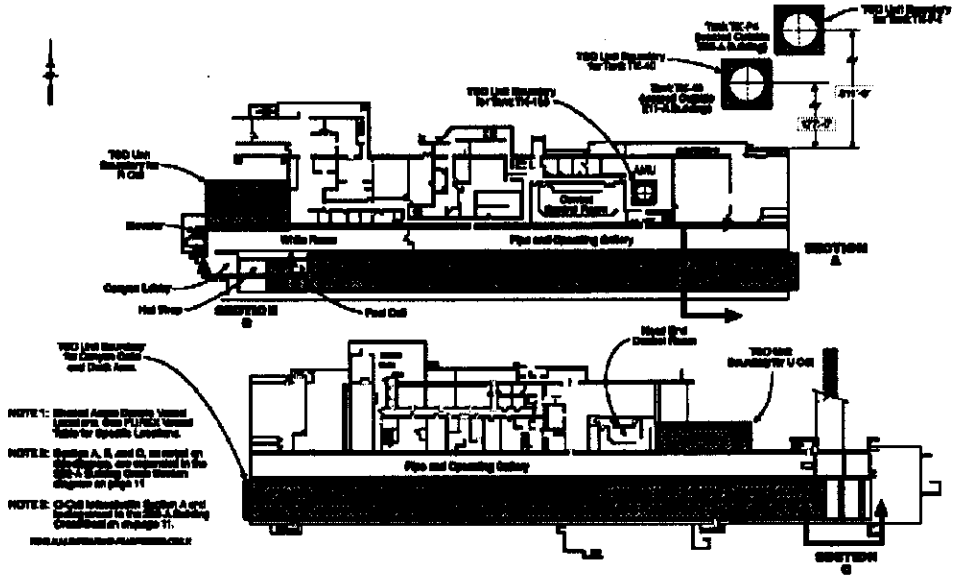
E9809W

PUREX Plant Cutaway View (202-A Building)



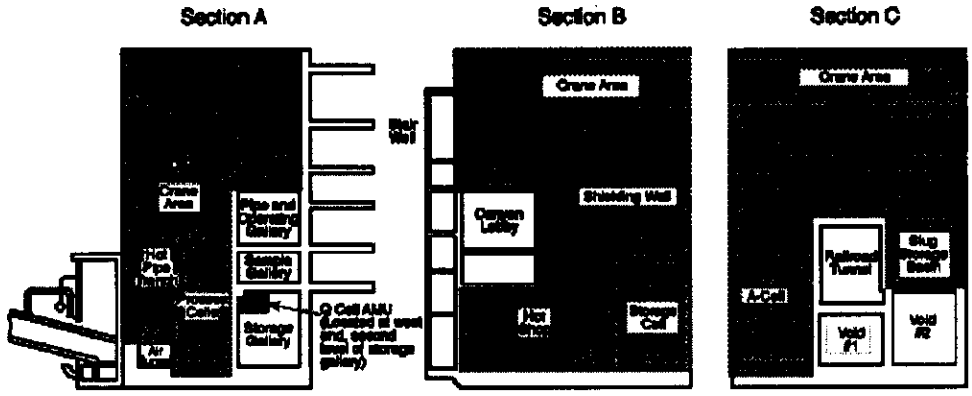
E9809076.2W

202-A Building Floor Plans



E9810002W
10/22/98

202-A BUILDING SECTION VIEWS



(Not to Scale)

Note: Shaded portions denote areas that are within the TSD boundary.

E9809075.1W

PUREX PLANT (AERIAL VIEW)

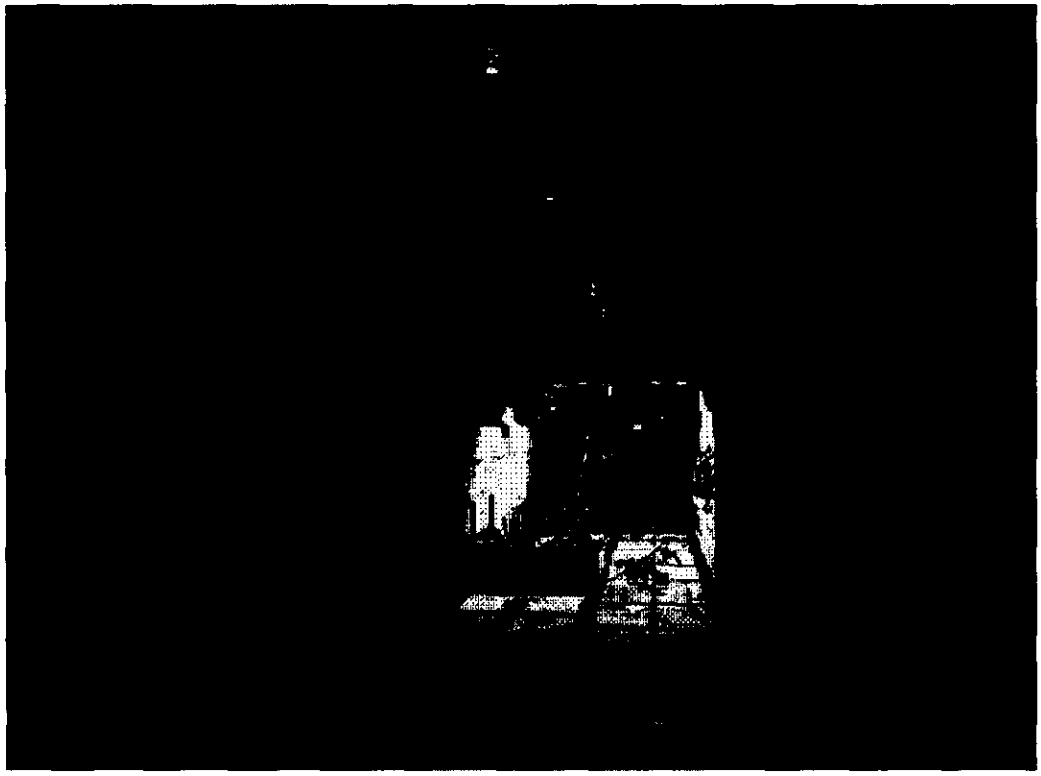
46°32'57"
119°31'12"

97060044-12CN
(PHOTO TAKEN 1997)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

INTERIOR CANYON

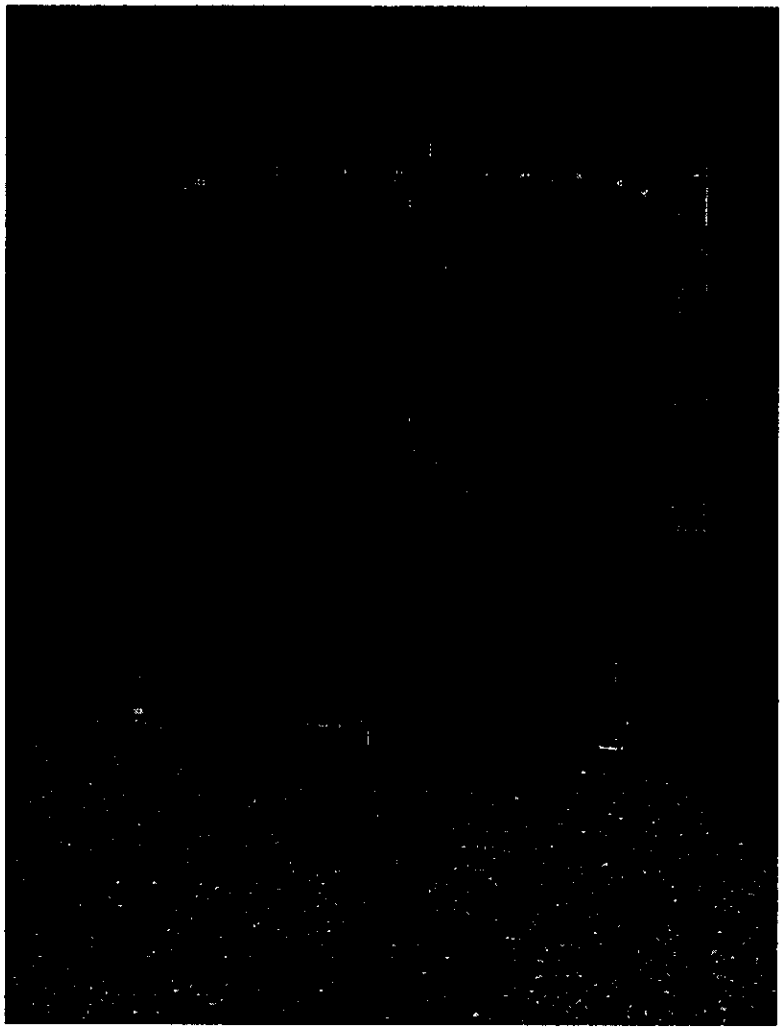
VIEW FROM WEST TO EAST



60478-4CN
(PHOTO TAKEN 1973)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

STANDARD 18,927-LITER TANK (TYPICAL OF E5, F15, F16, AND F18)

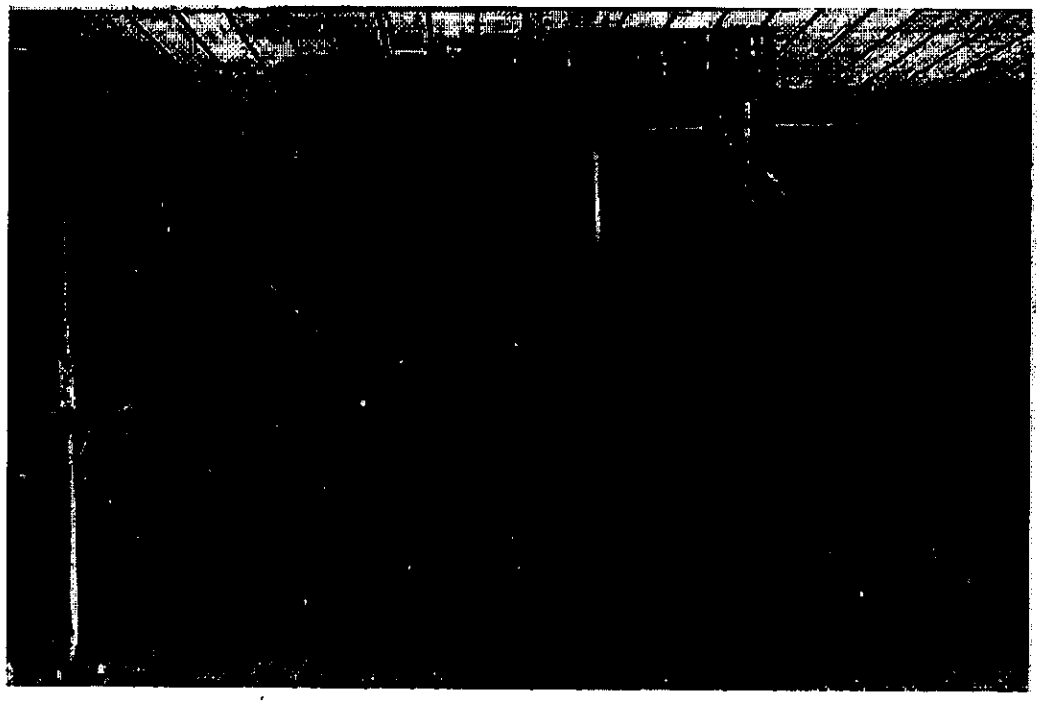


8706243-5CN
(PHOTO TAKEN 1987)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

TANK E5

Pipe Trench Wall - Top View



46°32'57"
119°31'12"

09948-38CN
(PHOTO TAKEN 1982)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

TANK F15 AND TANK F16

Pipe Trench Wall - Top View

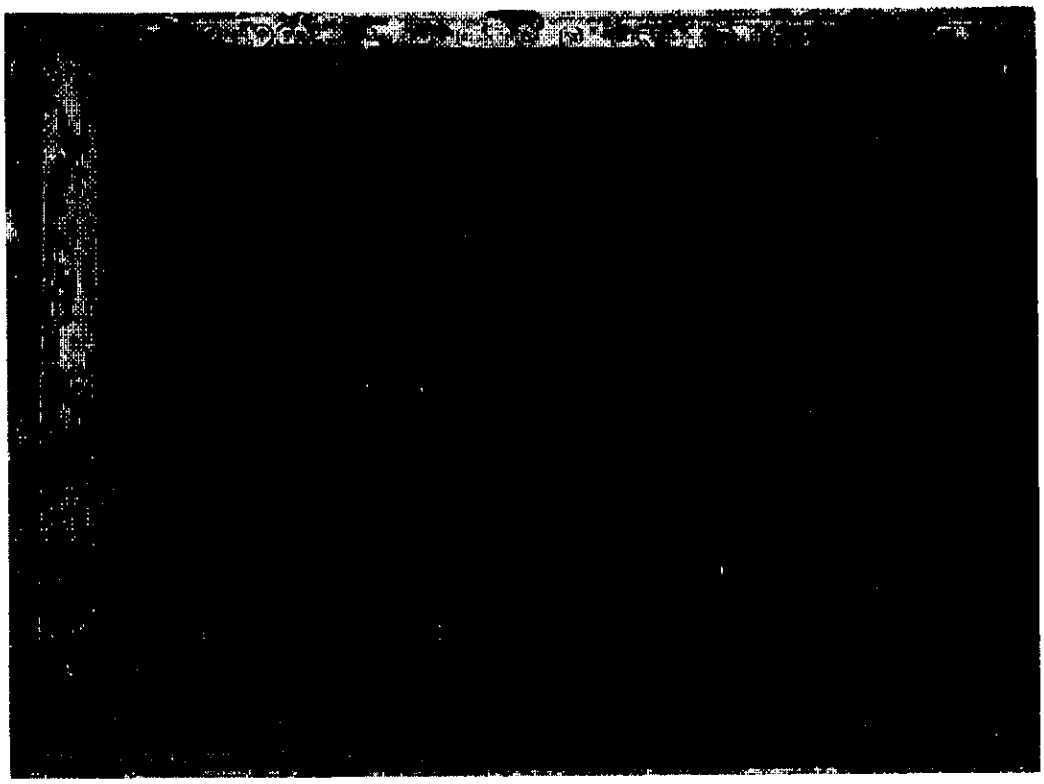
46°32'57"
119°31'12"

099948-71CN
(PHOTO TAKEN 1982)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

TANK F18

Pipe Trench Wall - Top View

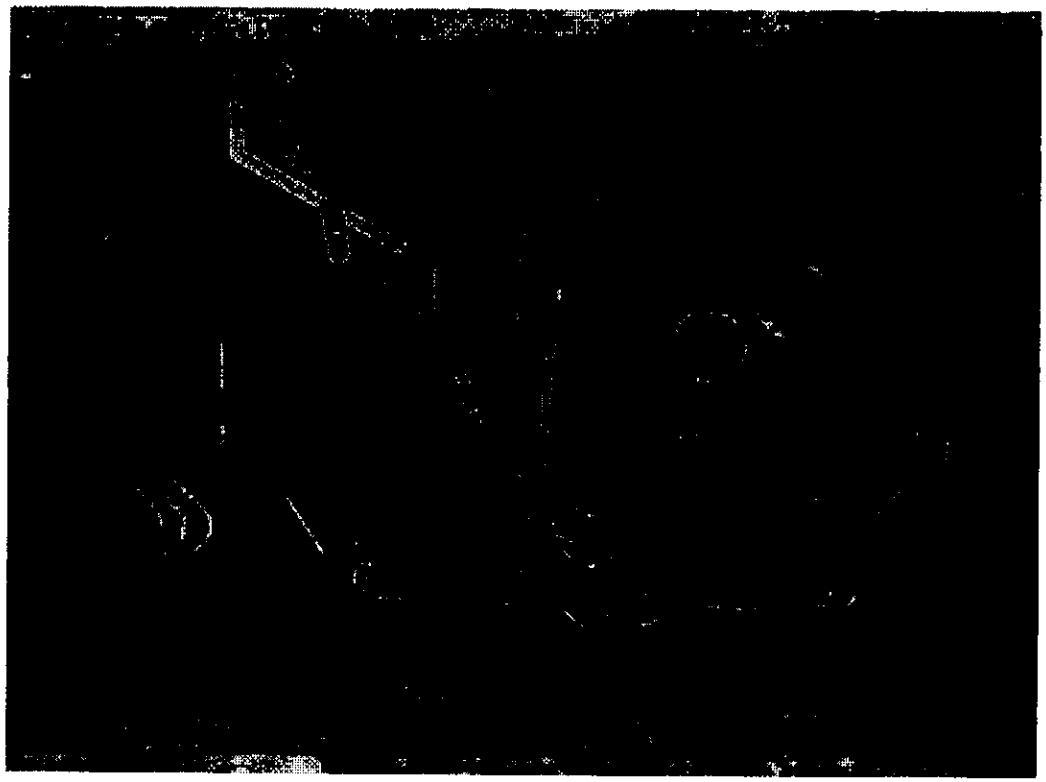


46°32'57"
119°31'12"

099948-74CN
(PHOTO TAKEN 1982)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

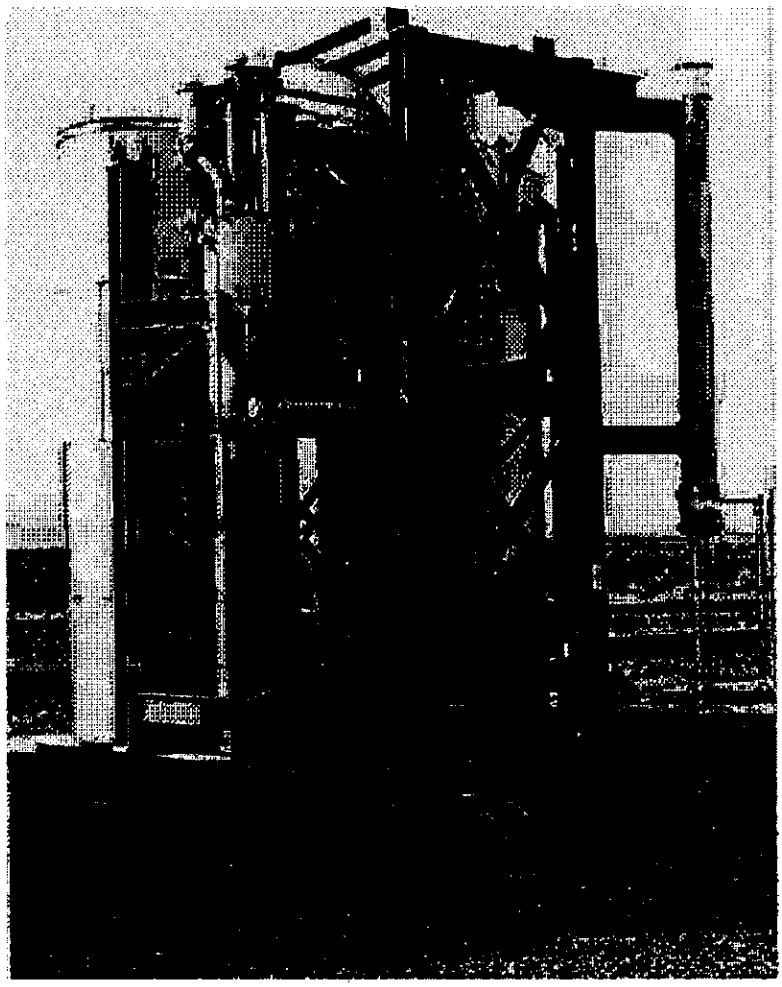
F-CELL LOOKING DOWN



99948-48CN
(PHOTO TAKEN 1982)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

E-F11 CONCENTRATOR

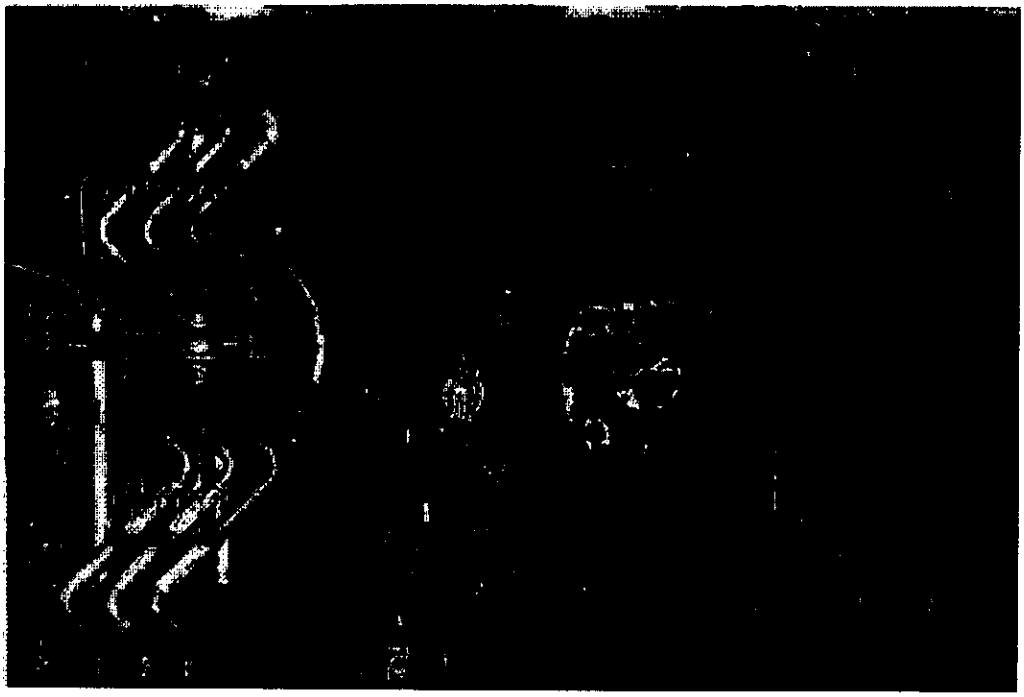


8706243-8CN
(PHOTO TAKEN 1987)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

E-F11 CONCENTRATOR

Pipe Trench Wall - Top View



46°32'57"
119°31'12"

099948-64CN
(PHOTO TAKEN 1982)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

U CELL

Top of Tank U3 (Typical of Tank U4)

46°32'57"
119°31'12"

92102839-10CN
(PHOTO TAKEN 1992)

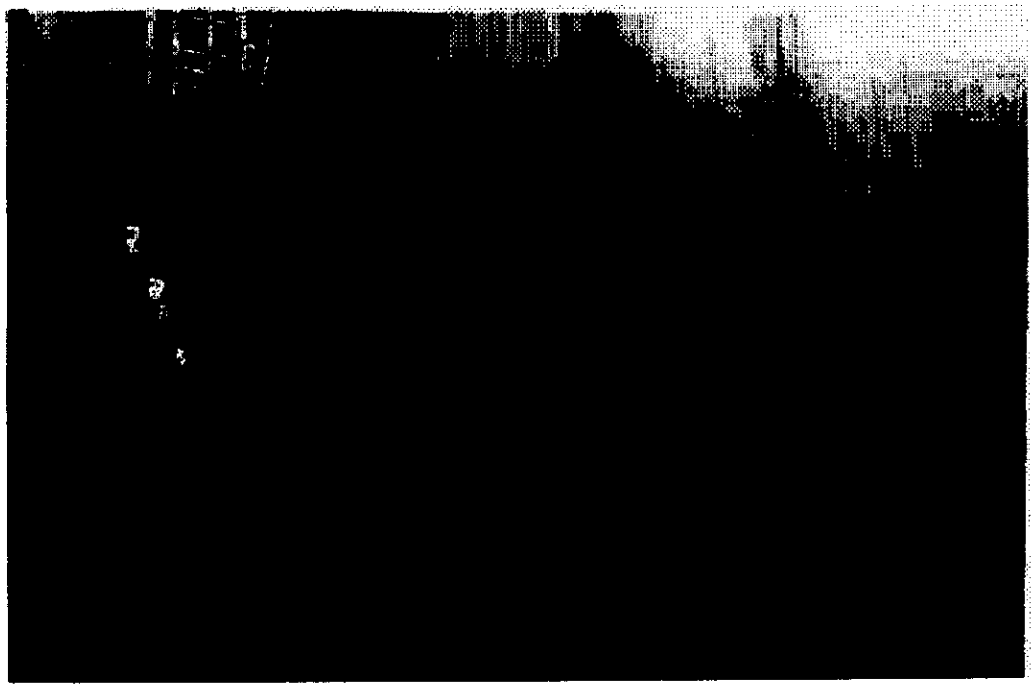
HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

U CELL

Tank U3

Tank U4

Bottom of Tanks



92102839-7CN
(PHOTO TAKEN 1992)

HISTORICAL PHOTO
CONSISTENT WITH CURRENT APPEARANCE

46°32'57"
119°31'12"

DOE/RL-88-21
Plutonium Finishing Plant Treatment Unit
Rev. 1, 4/10/00

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

*FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
**The date construction of the Hanford Facility commenced.*

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

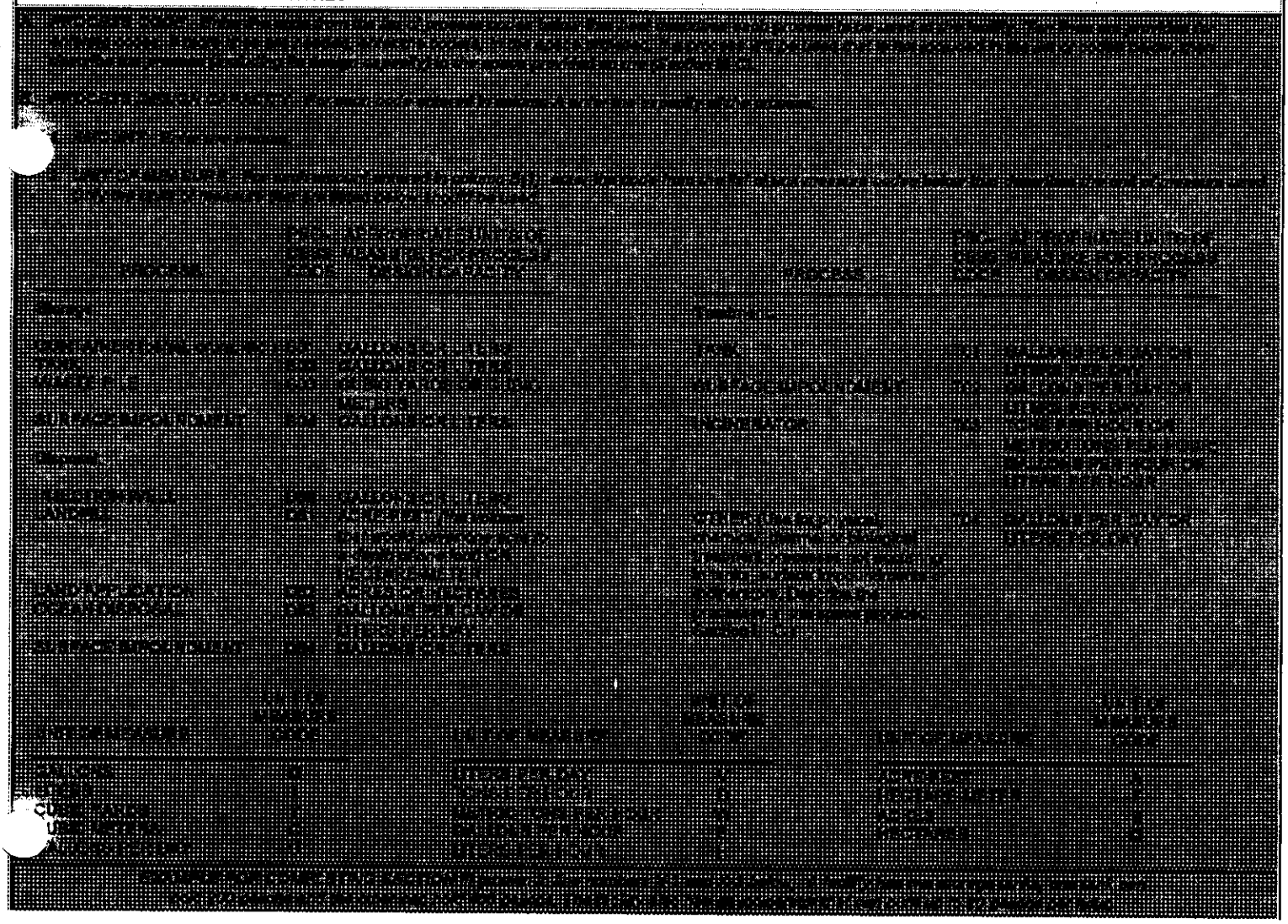
FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES



LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY			
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*				
1	T04	100	V				
2							
3							
4							
5							
6							
7							
8							
9							
10							

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The Plutonium Finishing Plant (PFP) Treatment Unit is located in the 200 West Area and supports PFP, which was constructed in 1948. The cementation process first started in October 1996 and operations ceased in December 1996.

T04

Treatment of mixed waste at the 234-5Z Building occurs in glovebox HA-20MB located in Room 235B. This glovebox (HA-20MB) measures approximately 4.7 meters (15 feet 6 inches) long by 1.5 meters (4 feet 10 inches) wide by 1.6 meters (5 feet 3 inches) high. Varying forms of mixed waste are treated in HA-20MB using a cementation process. The cementation process is performed by mixing a standard cement material with appropriate amounts of the mixed waste and water to form a slurry that will solidify into a chemically stable material. Following mixing, the slurry is placed in approximately 3-liter (0.8-gallon) billet cans for solidification in glovebox HA-20MB.

When treatment operations resume, the maximum process design capacity for mixed waste treatment in HA-20MB will be 100 liters (26 gallons) per day.

IV. DESCRIPTION OF DANGEROUS WASTES

[redacted]

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
[redacted]								
1	D001	5,921	K	T04				Treatment-Other
2	D003		↓	↓				↓
3	D005		↓	↓				↓
4	D006		↓	↓				↓
5	D007		↓	↓				↓
	D008		↓	↓				↓
7	D011		↓	↓				↓
8	WSC2		↓	↓				↓
9	WT01		↓	↓				↓
10	WT02		↓	↓				Included With Above

11							

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	04/10/2000

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

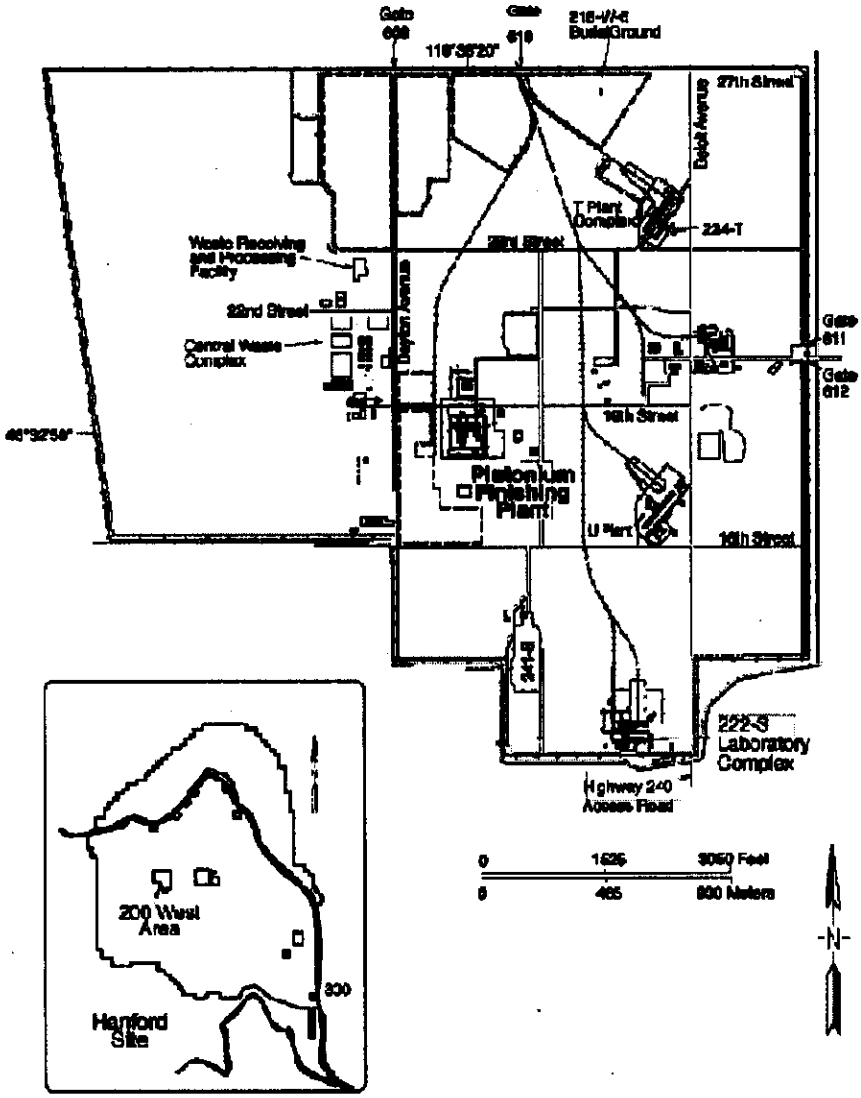
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

4/10/00
Date

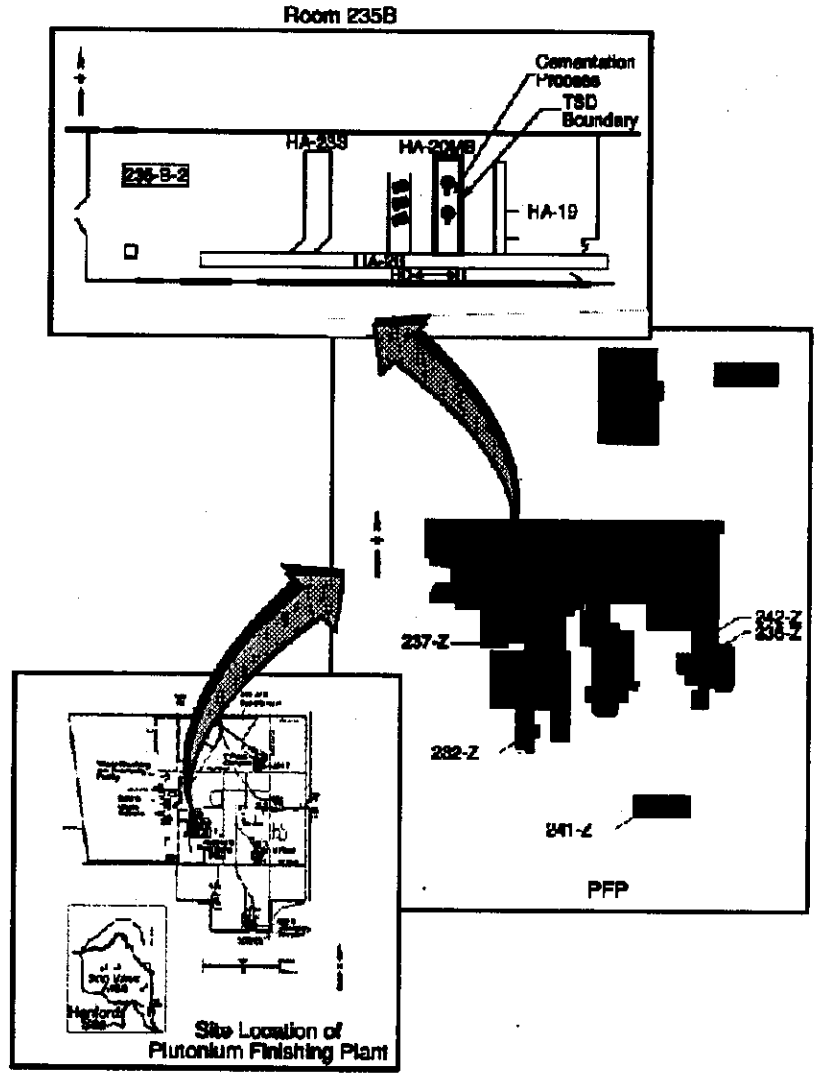
D. B. Van Leuven for
Co-Operator
Ron D. Hanson
President and Chief Executive Officer
Fluor Hanford

3/27/00
Date

200 West Area Site Plan



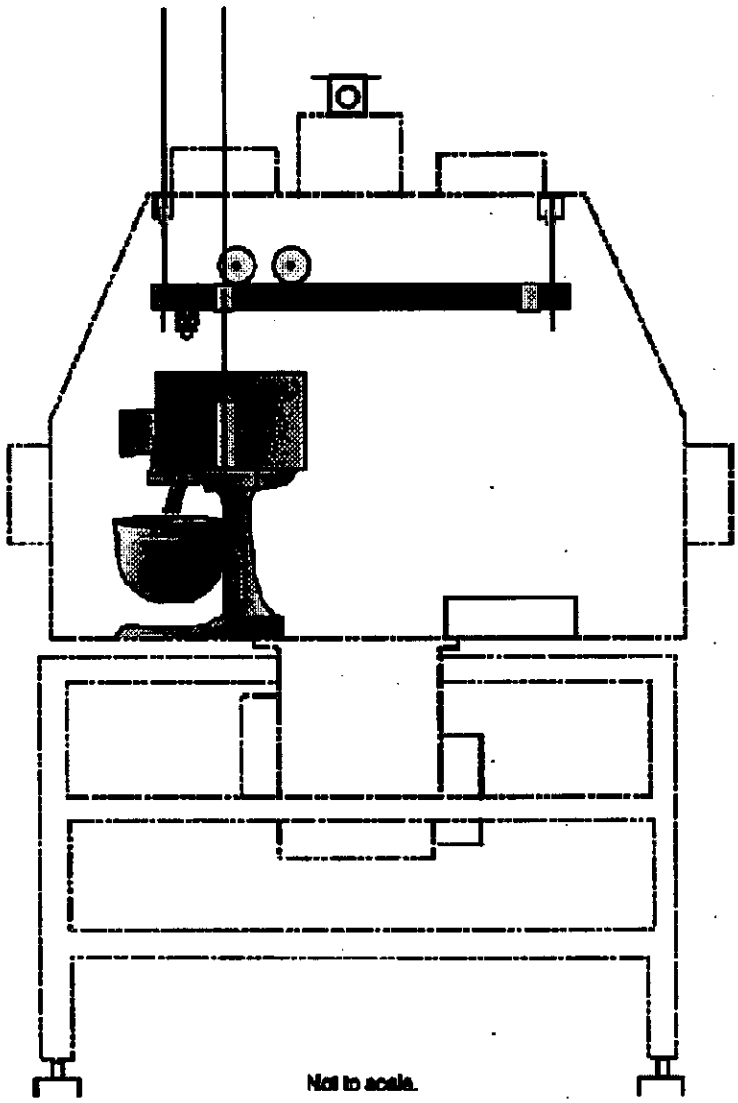
H98060093.2W



TSD = treatment, storage, and/or disposal

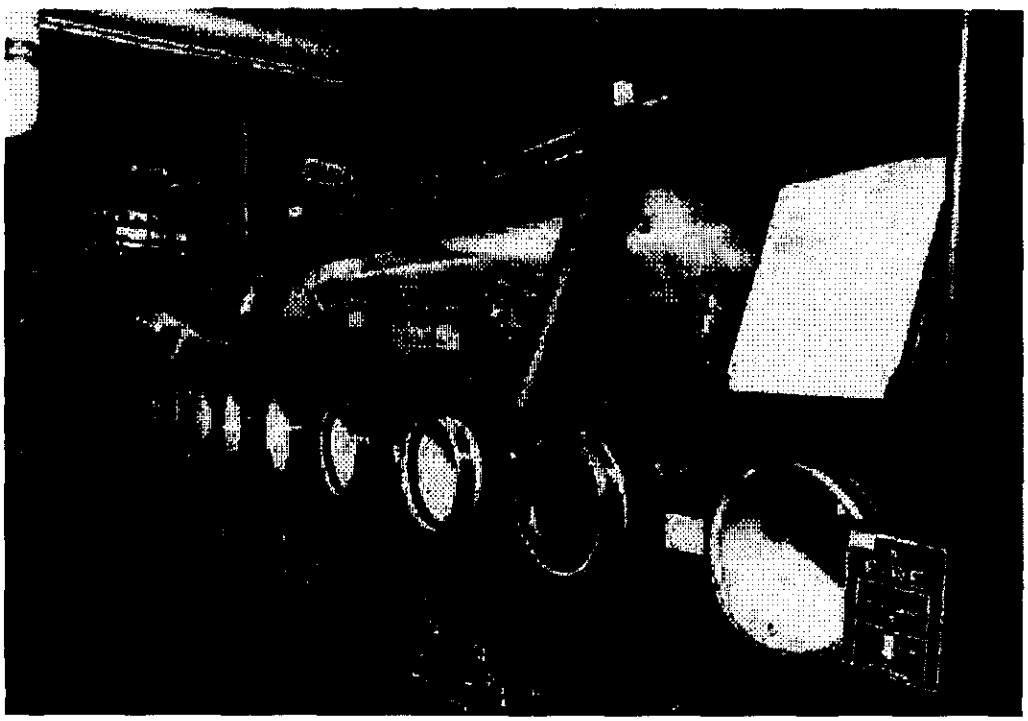
H98060093.1W

Glovebox HA-20MB



H97050154.1R1W

Room 235B Cementation Treatment Process Area



Glovebox HA-20MB
46°32'58"
119°38'20"

98030268-29CN
(PHOTO TAKEN 1998)

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

[redacted]

4.2 200 AREA FACILITIES

4.2.1 Treatment Facilities

[redacted]

4.2.2 Storage Facilities

[redacted]

* = A New Revision Is Pending And Is Not Available Yet.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 12/21/1999 2:51 PM
Return to the Hanford home page.

Designed by LMSI WEB TEAM
Maintained by FH

DOE/RL-88-21
216-B-3 Main Pond
Rev. 6, 3/30/00

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM 3

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: WA7890008967

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

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MO.	DAY	YEAR
03	22	1943

**FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)*
**The date construction of the Hanford Facility commenced.*

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

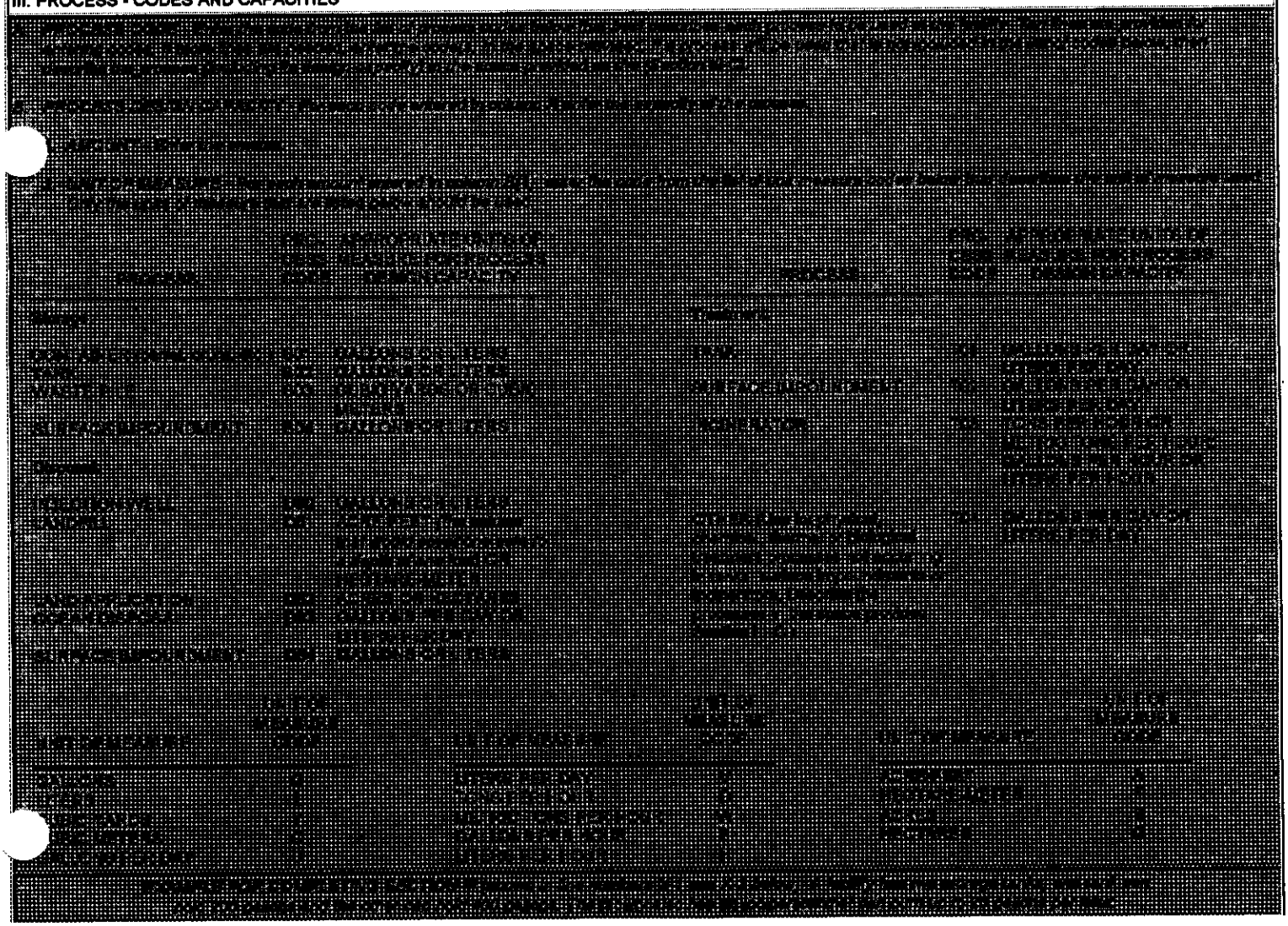
FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES



LINE NUMBER	A. PROCESS CODE (from list - above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY			
1	T02	840,000	U				
2	D84	840,000	G				
3							
4							
5							
6							
7							
8							
9							
10							

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T02, D84

The 216-B-3 Main Pond (Main Pond) was used from 4/1945 to 5/1992. The 216-B-3 Main Pond consists of the 216-B-3 Pond and 216-B-3-3 Ditch. The 216-B-3 Pond, which began service in 1945, currently covers an area of 14 hectares (35 acres) to a depth of .71 to 2.4 meters (2 to 8 feet). The 216-B-3 Pond received effluent from the 216-B-3-3 Ditch, which was excavated in 1970 to replace an earlier ditch. The 216-B-3-3 Ditch is approximately 1.128 meters (3,700 feet) long, 9.1 meters (30 feet) wide at ground level, 1.8 meters (6 feet) wide at the bottom, and 1.2 to 2.4 meters (4 to 8 feet) deep. The 216-B-3-3 Ditch received most of its dangerous waste from the 216-A-29 Ditch, which drained the Plutonium Uranium Extraction (PUREX) Plant chemical sewer line. The 216-A-29 Ditch discharged to the 216-B-3-3 Ditch approximately 460 meters (1,500 feet) west of the 216-B-3 Pond. The 216-A-29 Ditch was shut down and interim stabilized in July 1991.

The Main Pond receives waste water (primarily process and colling water) from the PUREX Plant, the B Plant Complex, the 242-A Evaporator, and other 200 East Area units. The Main Pond received corrosive waste as a result of the regeneration of PUREX Plant demineralizer columns (D84). Treatment of the waste occurred by the successive discharge of acidic and caustic waste, which served to neutralize the corrosivity of the waste before and upon reaching the Main Pond. Residual corrosivity was neutralized by the calcareous nature of the Main Pond soil (T02).

The process design capacities given for waste process codes T02 [3,180,000 liters (840,000 gallons) per day] and D84 [3,180,000 liters (840,000 gallons) per day] represent Main Pond's proportional share (based on percolation capacity) of the process design capacity of the entire B Pond System (which includes the 216-B-3 Expansion Ponds, a separate dangerous waste treatment and disposal unit). At the peak of operations, approximately 83,280,000 liters(22,000,000 gallons) per day of liquid were discharged to the entire 216-B-3 Pond System. Interim stabalization of the 216-B-3 Main Pond began in February 1994. The 216-B-3 Main Pond has been permanently isolated from all liquid effluent sources and will be closed under interim status.

IV. DESCRIPTION OF DANGEROUS WASTES

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES				
				1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D002	3,500,000	P	T02	D84			Neutralization/Percolation
2	WT02	77,000	P	T02	D84			Included with Above
3	U133	77,000	P	T02	D84			Neutralization/Percolation
4	WT01	19,000	P	T02	D84			Neutralization/Percolation
5	D006	169,000	P	T02	D84			Included with Above
6								
7								
8								
9								
10								

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The Main Pond received dangerous waste from two primary sources: (1) corrosive and toxic dangerous waste resulting from the regeneration of demineralizer columns at the PUREX Plant, and (2) spills of dangerous or mixed waste at the PUREX Plant. Backwash from the regeneration of the demineralizer columns was frequently corrosive (D002) and sometimes contained toxic concentrations of chemicals used in the regeneration process, including nitric acid, sulfuric acid, sodium hydroxide, and potassium hydroxide (WT02). Spills at the PUREX Plant included hydrazine (U133), cadmium nitrate (WT01/D006), and ammonium fluoride/ammonium nitrate (WT01). Since 1984, administrative and engineering barriers have been put in place at the PUREX Plant to prevent dangerous waste from being discharged into the Main Pond.

The quantity of waste listed for D002/WT02 is an estimated annual quantity based on the Main Pond's proportional share (based on percolation capacity) of the amount of corrosive and toxic waste received by the entire 216-B-3 Pond System (which includes the 216-B-3 Expansion Ponds, a separate dangerous waste treatment and disposal unit). The quantities of waste listed for U133 and WT01/D006 represent the Main Pond's proportional share (based on percolation capacity) of the total recorded amount of hydrazine, cadmium, and ammonium fluoride/ammonium nitrate received by the entire 216-B-3 Pond System from the time the PUREX Plant resumed operations in 1983 until the last known chemical discharge in 1987.

The quantities of waste listed for U133 and WT01/D006 include the water in which the chemicals were discharged. Water makes up most of the weight of these discharges.

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

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1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

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NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Robert M. Rosselli	03/30/2000

X. OPERATOR CERTIFICATION

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NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

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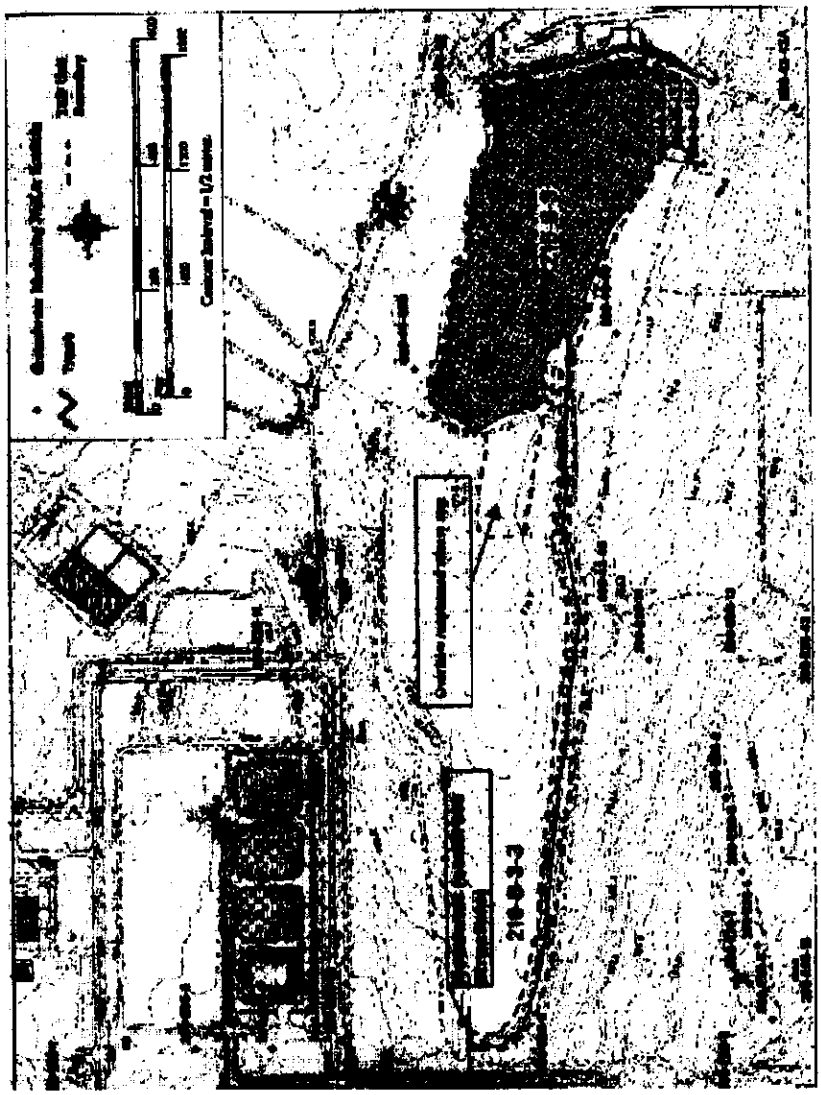
Robert M. Rosselli
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

3/30/00
Date

Michael C. Hughes
Co-Operator
Michael C. Hughes, President
Bechtel Hanford, Inc.

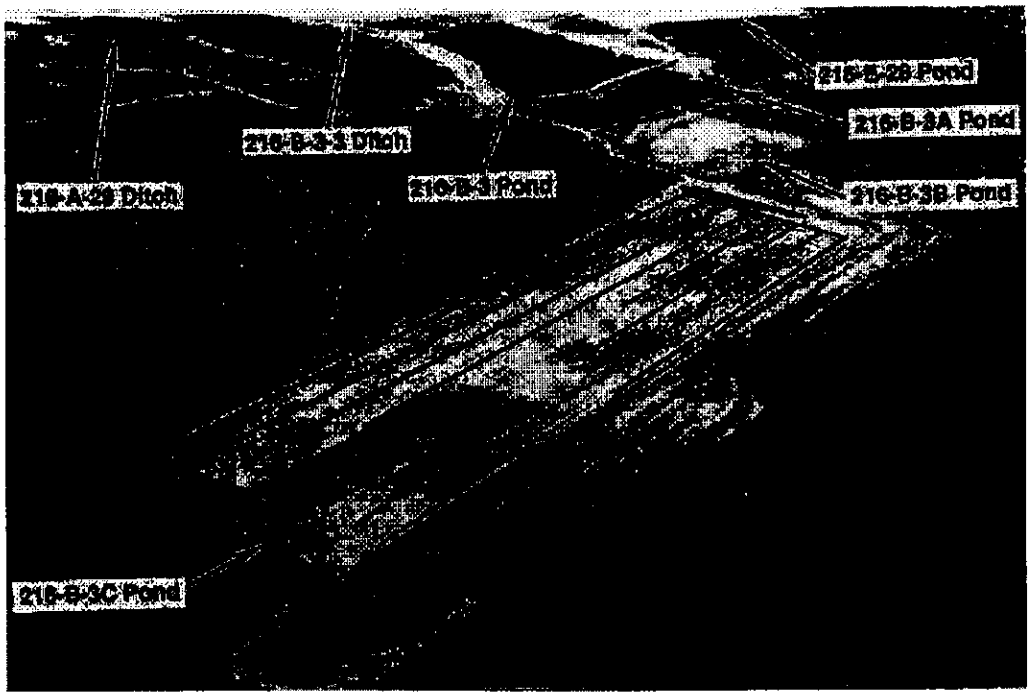
3/9/00
Date

216-B-3 Main Pond



699-42-42A

216-B-3 MAIN POND



46°33'38.522"
46°33'23.420"
119°30'16.016"
119°29'32.703"

93110825-1CN
(PHOTO TAKEN 1993)

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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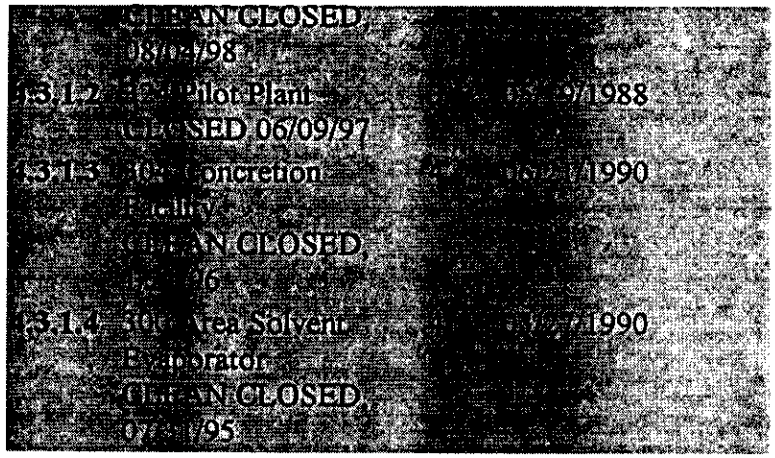
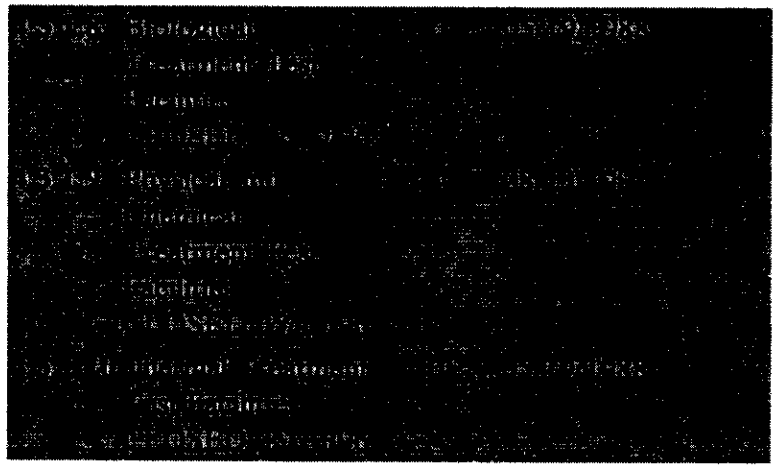


4.3.1.5	300 Area Waste Acid Treatment System	5	09/26/1996
4.3.1.6	303-M Oxide Facility	1	09/26/1996
4.3.1.7	325 Hazardous Waste Treatment Units	4	06/30/1997



4.3.2 Storage Facilities

4.3.2.1	311 Tanks	1	11/16/1987
4.3.2.2	303-K Storage Facility	5	09/26/1996
4.3.2.3	305-B Storage Facility	1	12/20/1990

4.3.3 Disposal Facilities

4.3.3.1	300 Area Process Trenches	4	05/25/1995

4.4 400 AREA FACILITIES

4.4.1 Treatment Facilities

4.4.1.1	437 Maintenance and Storage Facility	3	09/26/1996

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* = A New Revision Is Pending And Is Not Available Yet.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 12/21/1999 2:51 PM
Return to the Hanford home page.

Maintained by FH

DOE/RL-88-21
305-B Storage Facility
Rev. 1, 12/20/90

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR

*"FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
"The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES

[redacted]

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*	
1	S01	30,000	G	
2				
3				
4				
5				
6				
7				
8				
9				
10				

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01

The 305-B Storage Facility is a waste assembly area that services Research and Development operations at the 300 Area satellite storage area. Waste are brought into the facility for storage, repackaging, and/or waste consolidation into mostly 55 gallon drums. The storage design capacity is 30,000 gallons.

RMW is stored as received in storage cells in the basement of the facility. Other wastes are stored in segregated cells in the high bay area

IV. DESCRIPTION OF DANGEROUS WASTES

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	20,000	K	S01				
2	D002	5,000	K	S01				
3	D003	500	K	S01				
4	D004	200	K	S01				
5	D005	200	K	S01				
6	D006	200	K	S01				
7	D007	10,000	K	S01				
8	D008	50,000	K	S01				
9	D009	400	K	S01				
10	D010	50	K	S01				

11	D011	200	K	S01				
12	D012	220	K	S01				
13	D013	220	K	S01				
14	D014	220	K	S01				
	D015	220	K	S01				
	D016	220	K	S01				
17	D017	220	K	S01				
18	D018	2,000	K	S01				
19	D019	2,000	K	S01				
20	D020	220	K	S01				
21	D021	220	K	S01				
22	D022	2,000	K	S01				
23	D023	2,000	K	S01				
24	D024	2,000	K	S01				
25	D025	2,000	K	S01				
26	D026	2,000	K	S01				
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28	D028	220	K	S01				
29	D029	220	K	S01				
30	D030	220	K	S01				
31	D031	220	K	S01				
32	D032	220	K	S01				
33	D033	220	K	S01				
34	D034	220	K	S01				
35	D035	5,000	K	S01				
36	D036	220	K	S01				
37	D037	2,000	K	S01				
38	D038	2,000	K	S01				
	D039	2,000	K	S01				
	D040	2,000	K	S01				
41	D041	220	K	S01				
42	D042	220	K	S01				
43	D043	2,000	K	S01				
44	F001	2,000	K	S01				
45	F002	2,000	K	S01				
46	F003	5,000	K	S01				
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E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The wastes to be stored at the 305-B Storage Facility consists of listed wastes, wastes from nonspecific sources, characteristic wastes, and state-only (special) wastes.

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	Edward S. Goldberg	12/20/1990

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

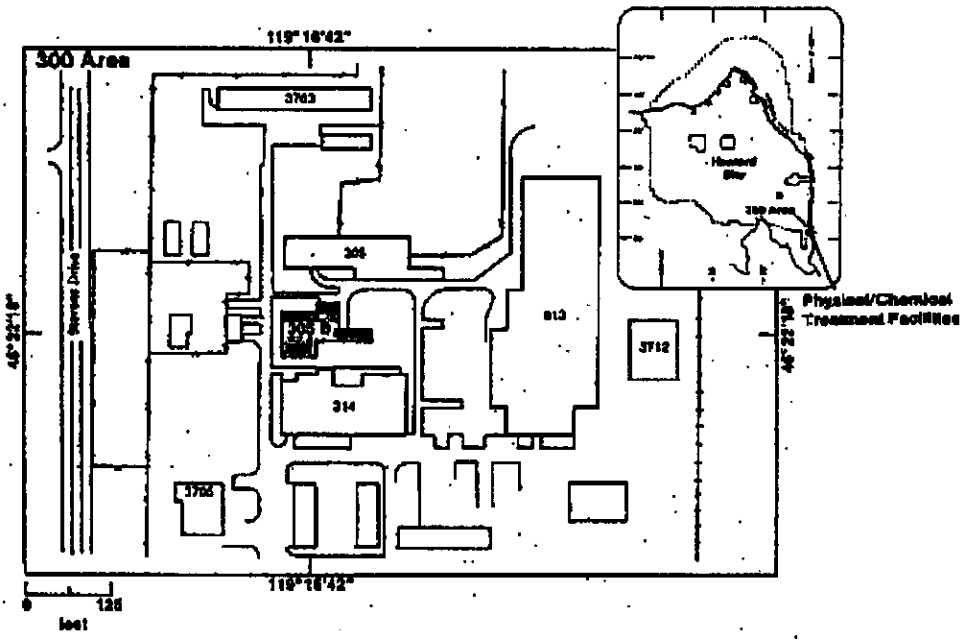
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Edward S. Goldberg — 12/20/90
Owner/Operator — Date
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

William R. Wiley — 12/6/90
Co-Operator — Date
William R. Wiley, Director
Pacific Northwest laboratory

305-B Storage Facility

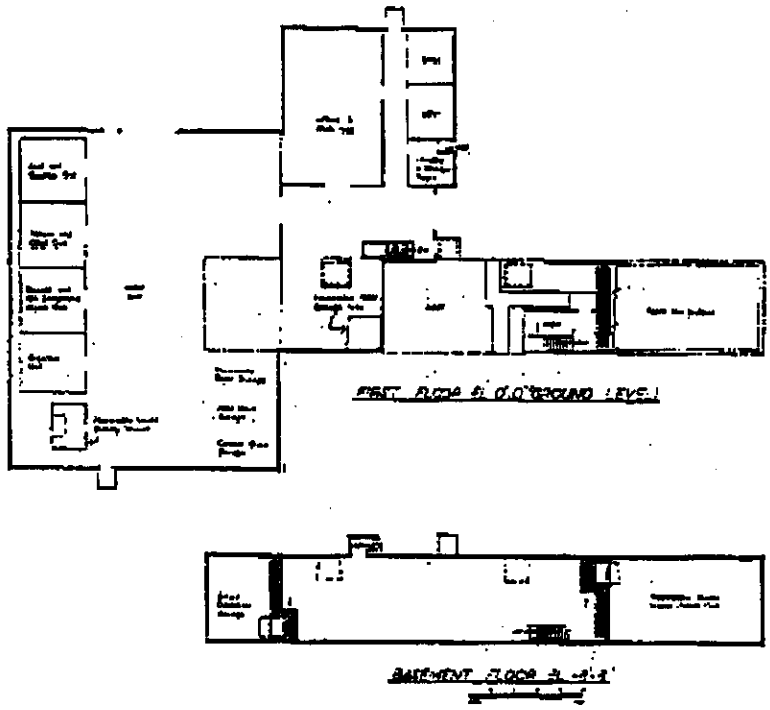
Site Plan



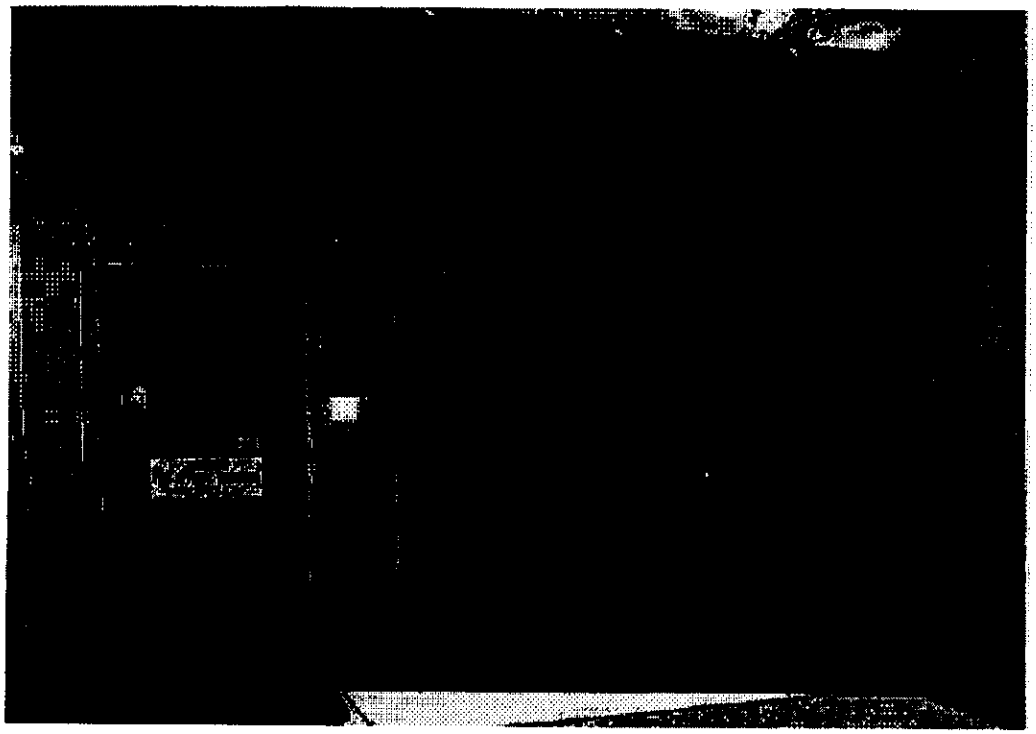
78804-120.12

305-B Storage Facility

Floor Plans



305-B STORAGE FACILITY

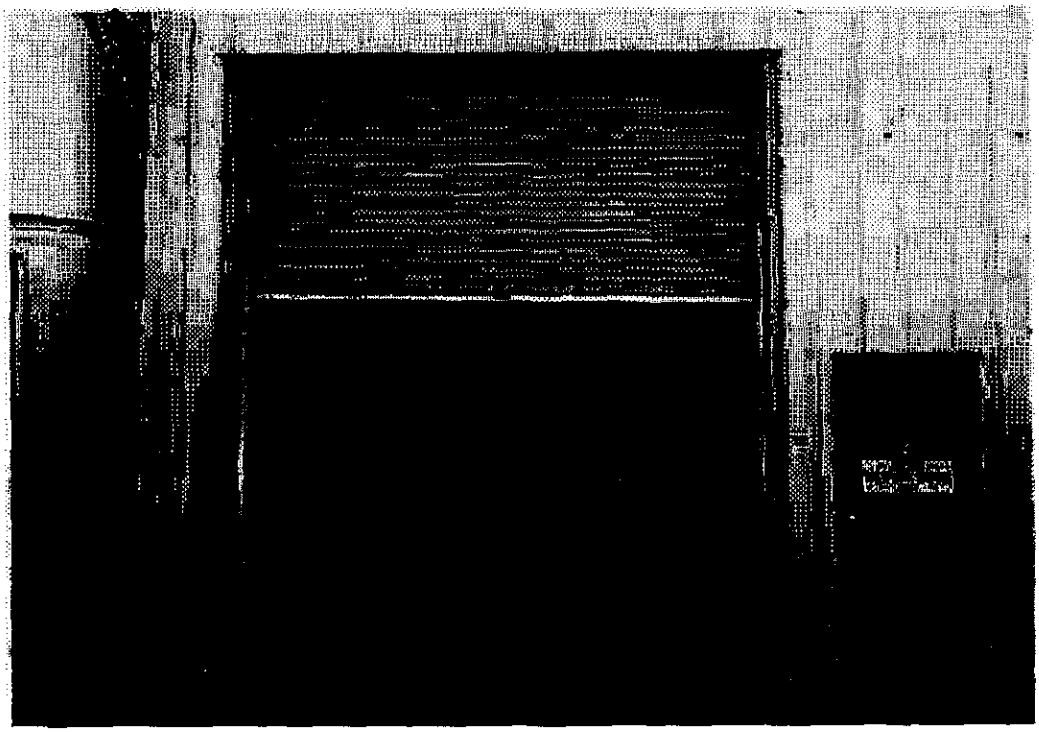


View Looking West

46°22'18"
119°16'42"

88A907-8CN
(PHOTO TAKEN 1988)

305-B STORAGE FACILITY



View Looking South
46°22'18"
119°16'42"

88A907-1CN
(PHOTO TAKEN 1988)